G2:C,N

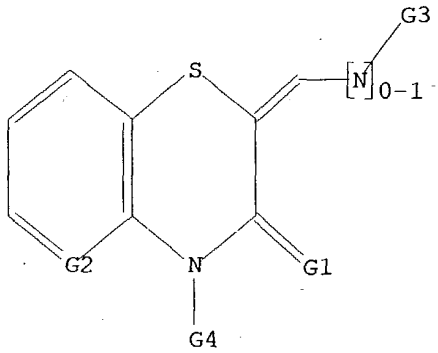
G3:Cb,Hy,Ak,O,S,N,CH2,CH,H

G4:H,CH3

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 14:CLASS 16:CLASS 17:CLASS 22:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



G1 O,S,N

G2 C,N

G3 Cb,Hy,Ak,O,S,N,CH2,CH,H

G4 H,Me

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 08:55:11 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 282 TO ITERATE

100.0% PROCESSED 282 ITERATIONS 45 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 4633 TO 6647
PROJECTED ANSWERS: 498 TO 1302

L2 45 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 08:55:20 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 5225 TO ITERATE

100.0% PROCESSED 5225 ITERATIONS 695 ANSWERS
SEARCH TIME: 00.00.02

L3 695 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	155.42	155.63

FILE 'CAPLUS' ENTERED AT 08:55:25 ON 18 NOV 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 18 Nov 2004 VOL 141 ISS 21
FILE LAST UPDATED: 17 Nov 2004 (20041117/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3
L4 90 L3

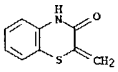
=> d ibib abs hitstr tot

L4 ANSWER 1 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:189160 CAPLUS
DOCUMENT NUMBER: 140:399336
TITLE: Identification of novel potent bicyclic peptide deformylase inhibitors
AUTHOR(S): Molteni, Valentina; He, Xiaohui; Nabakka, Juliet; Yang, Kunyong; Kreusch, Andreas; Gordon, Perry; Bursulaya, Badry; Warner, Ian; Shin, Tanya; Biorac, Tanya; Ryder, Neil S.; Goldberg, Ron; Doughty, John; He, Yun
CORPORATE SOURCE: Genomics Institute of the Novartis Research Foundation, San Diego, CA, 92121, USA
SOURCE: Bioorganic & Medicinal Chemistry Letters (2004), 14(6), 1477-1481
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Screening of our compound collection using Staphylococcus aureus Ni-Peptide deformylase (PDF) afforded a very potent PDF inhibitor with an IC50 in the low nanomolar range but with poor antibacterial activity (MIC). Three-dimensional structural information obtained from Pseudomonas aeruginosa Ni-PDF complexed with the inhibitor suggested the synthesis of a variety of analogs that would maintain high binding affinity while attempting to improve antibacterial activity. Many of the compds. synthesized proved to be excellent PDF-Ni inhibitors and some showed increased antibacterial activity in selected strains.

IT **55043-51-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation, identification, structure-activity relationship and antibacterial effect of novel potent bicyclic peptide deformylase inhibitors)

RN 55043-51-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-methylene- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

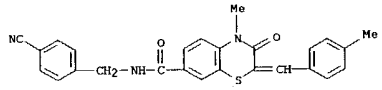
L4 ANSWER 2 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:142970 CAPLUS
DOCUMENT NUMBER: 140:175189
TITLE: 3,4-Dihydroquinolin-2-one, 5,6-fused oxazin-3-one, and 5,6-fused thiazin-3-one derivatives as matrix metalloproteinase inhibitors, pharmaceutical compositions, and therapeutic use
INVENTOR(S): O'Brien, Patrick Michael
PATENT ASSIGNEE(S): Warner-Lambert Company LLC, USA
SOURCE: PCT Int. Appl., 177 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004014389	A1	20040219	WO 2003-IB3537	20030804
WO 2004014389	C1	20040429		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2004043984	A1	20040304	US 2003-634288	20030805
PRIORITY APPLN. INFO.:			US 2002-403082P P	20020813
OTHER SOURCE(S):		MARPAT 140:175189		

AB Th invention provides 3,4-dihydroquinolin-2-one, 5,6-fused oxazin-3-one, and 5,6-fused thiazin-3-one derivs., or pharmaceutically acceptable salts thereof. The invention also provides pharmaceutical comps. comprising a compound of the invention, or a pharmaceutically acceptable salt thereof, together with a pharmaceutically acceptable carrier, diluent, or excipient. The invention also provides methods of inhibiting an MMP-13 enzyme in an animal, comprising administering a compound of the invention, or a pharmaceutically acceptable salt thereof. The invention also provides methods of treating a disease mediated by an MMP-13 enzyme in a patient, comprising administering to the patient a compound of the invention, or a pharmaceutically acceptable salt thereof, either alone or in a pharmaceutical composition The invention also provides methods of treating diseases such as heart disease, multiple sclerosis, osteo- and rheumatoid arthritis, arthritis other than osteo- or rheumatoid arthritis, cardiac insufficiency, inflammatory bowel disease, heart failure, age-related macular degeneration, chronic obstructive pulmonary disease, asthma, periodontal diseases, psoriasis, atherosclerosis, and osteoporosis in a patient, comprising administering to the patient a compound of the invention, or a pharmaceutically acceptable salt thereof, either alone or in a pharmaceutical composition The invention also provides combinations, comprising a compound of the invention, or a pharmaceutically acceptable salt thereof, together with another pharmaceutically active component as described in the specification.

L4 ANSWER 2 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
IT **658680-11-6**
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(dihydroquinolinone,fused oxazinone, and fused thiazinone derivs. as matrix metalloproteinase inhibitors, pharmaceutical compns., and therapeutic use)

RN 658680-11-6 CAPLUS
CN 2H-1,4-Benzothiazine-7-carboxamide, N-[(4-cyanophenyl)methyl]-3,4-dihydro-4-methyl-2-[(4-methylphenyl)methylene]-3-oxo- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:80973 CAPLUS
DOCUMENT NUMBER: 140:139446
TITLE: Target characterization method for drug discovery
INVENTOR(S): Ofer, Dror
PATENT ASSIGNEE(S): Keddem Bio-Science Ltd., Israel
SOURCE: PCT Int. Appl., 188 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

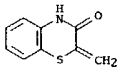
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004010136	A1	20040129	WO 2002-IL614	20020724
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			WO 2002-IL614	20020724

AB A target characterization method is claimed, in which a plurality of small, measurement mols. interact with a target and the target is characterized based on an anal. of the interactions of the measurement mols. with the target. None of the measurement mols. is used as a lead or as a fragment of a lead, nor are the mols. selected for interaction based on their drug-type diversity. Rather, the measurement mols. are selected based on their expected ability to measure various chemical and/or phys. dimensions of the target. While the number of measurement mols. is relatively small (e.g., <106), this number spans the space of characterization of the target mol. and can suffice to provide a relatively complete characterization of the target. In other embodiments, only a partial characterization is needed and/or obtained. Alternatively or addnl., while the measurement mols. are selected for span reasons, they are also used as leads or as fragments of a lead. In an exemplary embodiment of the invention, a complete process of drug discovery comprises: (a) selecting a target; (b) optionally selecting a set of measurement mols. useful for the target, or using a universal library; (c) characterizing the target using the set of measurement mols.; (d) reconstructing a pharmaceutical model of the target, based on the characterization; and (e) using the model to forward a discovery process, for example, select, reject, filter and/or design a drug lead. Specifically claimed are the target based method, methods of selecting scaffolds and gauge mols. for a screening library, screening libraries, a method of obtaining information about the binding behavior of a target mol., and a method of constructing a lead compound

IT **55043-51-1**
RL: MSC (Miscellaneous); PRP (Properties)
(scaffold for screening library; target characterization method for drug discovery)

RN 55043-51-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-methylene- (9CI) (CA INDEX NAME)

L4 ANSWER 3 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

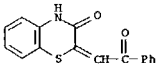
L4 ANSWER 4 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:896566 CAPLUS
DOCUMENT NUMBER: 140:357278
TITLE: Tetracarbonyl systems: VII. Reactions of 1,3,4,6-tetracarbonyl compounds with o-aminothiophenol in the synthesis of regioisomeric 3(2)-aroylmethylene-1,4-benzothiazin-2(3)ones
AUTHOR(S): Kozminykh, V. O.; Igidov, N. M.; Kozminykh, E. N.
CORPORATE SOURCE: Perm State Pharmaceutical Academy, Perm, 614051, Russia
SOURCE: Russian Journal of Organic Chemistry (Translation of Zhurnal Organicheskoi Khimii) (2003), 39(6), 863-868
CODEN: RJOCEQ; ISSN: 1070-4280
PUBLISHER: MAIK Nauka/Interperiodica Publishing
DOCUMENT TYPE: Journal
LANGUAGE: English

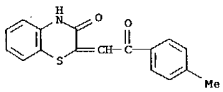
AB In reaction of 1,6-diaryl-3,4-dihydroxy-2,4-hexadiene-1,6-diones with o-aminothiophenol (3Z)-3-aroylmethylene-3,4-dihydro-2H-1,4-benzothiazin-2-ones were obtained in a preparative yield. In solution of the latter compds. an enamine-imine tautomerism was observed In reaction of Et esters or amides of 2-substituted 6-aryl-3,4-dihydroxy-6-oxo-2,4-hexadienoic acids with o-aminothiophenol regioisomeric 2-aroylmethylene-2H-1,4-benzothiazin-3(4H)-ones were formed.

IT **64393-75-5P 64393-76-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(reactions of 1,3,4,6-tetracarbonyl compds. with o-aminothiophenol to give regioisomeric aroylmethylenebenzothiazinones)

RN 64393-75-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-oxo-2-phenylethylidene)- (9CI) (CA INDEX NAME)



RN 64393-76-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-methylphenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

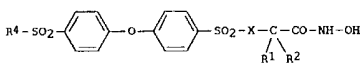
L4 ANSWER 4 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 5 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:532639 CAPLUS
DOCUMENT NUMBER: 139:100932
TITLE: Preparation of hydroxamic acid derivatives as MMP inhibitors
INVENTOR(S): Horiuchi, Yoshihiro
PATENT ASSIGNEE(S): Sumitomo Pharmaceuticals Company, Limited, Japan
SOURCE: PCT Int. Appl., 93 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003055851	A1	20030710	WO 2002-JP13580	20021226
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1466899	A1	20041013	EP 2002-792000	20021226
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
PRIORITY APPLN. INFO.:			JP 2001-397638	A 20011227
			WO 2002-JP13580	W 20021226

OTHER SOURCE(S): MARPAT 139:100932
GI

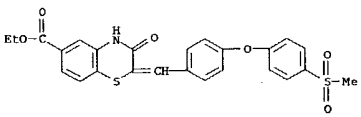


AB The title compds. I [R1 and R2 each represents hydrogen, lower alkyl, lower haloalkyl, etc.; X represents methylene or NR3 (R3 represents hydrogen, lower alkyl, etc.); and R4 represents C1-4 alkyl] are prepared Compds. of this invention in vitro showed IC50 values of < 0.5 nM to 34.4 nM against MMP-13. Formulations are given.

IT **557087-59-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of hydroxamic acid derivs. as MMP inhibitors)

RN 557087-59-9 CAPLUS
CN 2H-1,4-Benzothiazine-6-carboxylic acid, 3,4-dihydro-2-[[4-[4-(methylsulfonyl)phenoxy]phenyl]methylene]-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 5 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

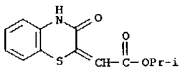
L4 ANSWER 6 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:461791 CAPLUS
DOCUMENT NUMBER: 139:230821
TITLE: One-pot synthesis of stable phosphonium ylides using 2-aminothiophenol
AUTHOR(S): Esmaili, Abbas Ali; Ghereghloo, Mahnaz; Islami, Mohammad Reza; Bijanzadeh, Hamid Reza
CORPORATE SOURCE: Department of Chemistry, University of Birjand, Birjand, Iran
SOURCE: Tetrahedron (2003), 59(26), 4785-4788
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:230821

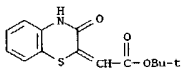
AB Protonation of reactive 1:1 intermediates produced in the reaction between triphenylphosphine and dialkyl acetylenedicarboxylate by 2-aminothiophenol led to vinylphosphonium salts, which underwent Michael addition with thiophenolate anion producing highly functionalized phosphonium ylides in excellent yields. For example, PPh3 reacted with MeO2CC.tplbond.CCO2Me and NH2-o-C6H4SH giving NH2-o-C6H4SCH(CO2Me)C(CO2Me):PPh3 in 89% yield.

IT **594846-62-5P 594846-63-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of phosphonium ylides and dihydrobenzothiazine derivs. using aminothiophenol)

RN 594846-62-5 CAPLUS
CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, 1-methylethyl ester (9CI) (CA INDEX NAME)



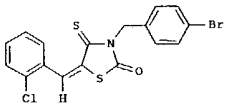
RN 594846-63-6 CAPLUS
CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:384660 CAPLUS
DOCUMENT NUMBER: 140:27791
TITLE: Synthesis and structural study of arylidene thiazolidine and benzothiazine compounds
AUTHOR(S): Guarda, V. L. M.; Pereira, M. A.; De Simone, C. A.; Albuquerque, J. F. C.; Galdino, S. L.; Chantegrel, J.; Perrissin, M.; Beney, C.; Thomasson, F.; Pitta, I. R.; Luu-Duc, C.
CORPORATE SOURCE: Escola de Farmacia, Universidade Federal de Ouro Preto, Ouro Preto, Brazil
SOURCE: Sulfur Letters (2003), 26(1), 17-27
CODEN: SULED2; ISSN: 0278-6117
PUBLISHER: Taylor & Francis Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 140:27791
GI



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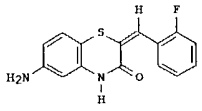


II

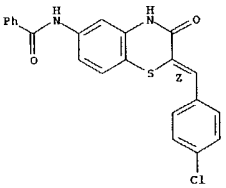
AB Synthesis and physico-chemical properties of 5-arylidene-3-(2-biphenyl-4-yl-2-oxoethyl)- and 3-(4-bromobenzyl)-4-thioxothiazolidin-2-ones, 5-arylidene-3-(4-chlorobenzyl)-4-thioxo- and 4-oxothiazolidin-2-ones, and 2-arylidene-6-benzoylamino- or 6-amino-4H-benzo[1,4]thiazin-3-ones, are described. These arylidene thiazolidines, e.g., I, and benzothiazines, e.g., II, were prepared by Knoevenagel condensation with benzaldehydes.

IT **634198-56-4P 634198-57-5P 634198-58-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(stereoselective preparation of aminoarylidinebenzothiazinones via reduction of nitrobenzothiazinone followed by benzoylation, Knoevenagel condensation with benzaldehydes, and debenzoylation)

RN 634198-56-4 CAPLUS
CN Benzamide, N-[(2Z)-2-[(4-chlorophenyl)methylene]-3,4-dihydro-3-oxo-2H-1,4-benzothiazin-6-yl]- (9CI) (CA INDEX NAME)

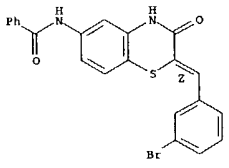
L4 ANSWER 7 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

Double bond geometry as shown.



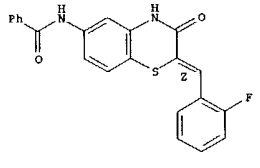
RN 634198-57-5 CAPLUS
CN Benzamide, N-[(2Z)-2-[(3-bromophenyl)methylene]-3,4-dihydro-3-oxo-2H-1,4-benzothiazin-6-yl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 634198-58-6 CAPLUS
CN Benzamide, N-[(2Z)-2-[(2-fluorophenyl)methylene]-3,4-dihydro-3-oxo-2H-1,4-benzothiazin-6-yl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT **634198-59-7P 634198-60-0P 634198-61-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective preparation of aminoarylidinebenzothiazinones via reduction of

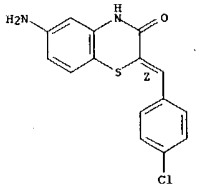
Habte

11/18/2004

L4 ANSWER 7 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
nitrobenzothiazinone followed by benzoylation, Knoevenagel condensation with benzaldehydes, and debenzoylation)

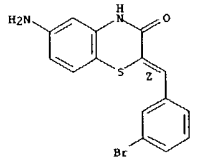
RN 634198-59-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 6-amino-2-[(4-chlorophenyl)methylene]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 634198-60-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 6-amino-2-[(3-bromophenyl)methylene]-, (2Z)- (9CI) (CA INDEX NAME)

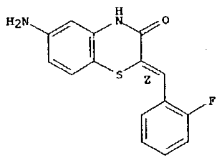
Double bond geometry as shown.



RN 634198-61-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 6-amino-2-[(2-fluorophenyl)methylene]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L4 ANSWER 7 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

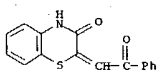
L4 ANSWER 8 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:	2002:785513 CAPLUS
DOCUMENT NUMBER:	138:170159
TITLE:	Synthesis of regioisomeric 3-phenacylidene-2,3-dihydro-4h-benzothiazin-2-one and 2-phenacylidene-2,3-dihydro-4h-benzothiazin-3-one
AUTHOR(S):	Kozminykh, V. O.; Igidov, N. M.; Kozminykh, E. N.
CORPORATE SOURCE:	Perm State Pharmaceutical Academy, Perm, 614070, Russia
SOURCE:	Chemistry of Heterocyclic Compounds (New York, NY, United States) (Translation of Khimiya Geterotsiklicheskikh Soedinenii) (2002), 38(3), 365-367 CODEN: CHCCAL; ISSN: 0009-3122
PUBLISHER:	Kluwer Academic/Consultants Bureau
DOCUMENT TYPE:	Journal
LANGUAGE:	English
OTHER SOURCE(S):	CASREACT 138:170159

AB Reaction of PhCOCH:C(OH)C(OH):CH(CONH2)CO2Et with 2-H2NC6H4SH gave 2-phenacylidene-2,3-dihydro-4h-benzothiazin-3-one in 64% yield. Reaction of PhCOCH2COCOCH2COPh with 2-H2NC6H4SH gave 71% 3-phenacylidene-2,3-dihydro-4h-benzothiazin-2-one mainly as the enamine.

IT **64393-75-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of regioisomeric 3-phenacylidene-2,3-dihydro-4h-benzothiazin-2-one and 2-phenacylidene-2,3-dihydro-4h-benzothiazin-3-one)

RN 64393-75-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-oxo-2-phenylethylidene)- (9CI) (CA INDEX NAME)

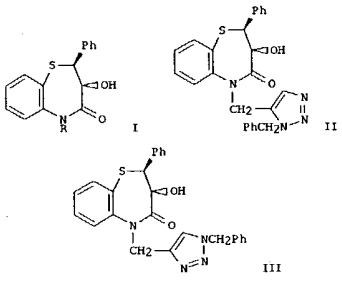


REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:	2002:125053 CAPLUS
DOCUMENT NUMBER:	137:6162
TITLE:	Synthesis and reactivity of 2,3-dihydro-3-hydroxy-2-phenyl-1,5-benzothiazepin-4(5H)-one derivatives
AUTHOR(S):	Zerzouf, Abdelfettah; El Meslouhi, Hamza; Salem, Moussa; Essassi, El Mokhtar; Roumestant, Marie-Louise; Viallefont, Philippe
CORPORATE SOURCE:	Lab. de Chimie Organique et Etudes Physico-Chimiques, ENS Oued Akreuch, Rabat, Morocco
SOURCE:	Comptes Rendus de l'Academie des Sciences, Serie IIc: Chimie (2001), 4(12), 925-931 CODEN: CASCFN; ISSN: 1387-1609
PUBLISHER:	Editions Scientifiques et Medicales Elsevier
DOCUMENT TYPE:	Journal
LANGUAGE:	French
OTHER SOURCE(S):	CASREACT 137:6162

GI

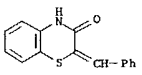


AB New 1,5-benzothiazepinone derivs. have been synthesized. The cycloaddn. of benzyl azide with 5-propargyl-1,5-benzothiazepinone I (R = CH2C.tplbond.CH) gave II and III. 1,5-Benzothiazepinone I (R = CH2CO2Me) reacts with hydrazine to give a 1,5-benzothiazepinone derivative The reaction of 3-chloro-1,5-benzothiazepinones with nucleophiles in DMF afforded 2-benzylidenebenzothiazin-3-ones. The tosylate derived from I (R = CH2CO2Me) gave a 1,5-benzothiazepinone derivative by reaction with N3TMS in the presence of CsF in DMF.

IT **24545-07-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and reactions of 2,3-dihydro-3-hydroxy-2-phenyl-1,5-benzothiazepin-4(5H)-one derivs.)

RN 24545-07-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:933455 CAPLUS
DOCUMENT NUMBER: 136:325519
TITLE: Unusual reaction of hetereno[a]-2,3-dihydro-2,3-pyrroledione with o-aminothiophenol
AUTHOR(S): Mashevskaya, I. V.; Kol'tsova, S. V.; Maslivets, A. N.
CORPORATE SOURCE: A. M. Gor'kii Perm State University, Perm, 614000, Russia
SOURCE: Chemistry of Heterocyclic Compounds (New York, NY, United States) (Translation of Khimiya Geterotsiklicheskikh Soedinenii) (2001), 37(5), 652-653
CODEN: CHCCAL; ISSN: 0009-3122
PUBLISHER: Kluwer Academic/Consultants Bureau
DOCUMENT TYPE: Journal
LANGUAGE: English

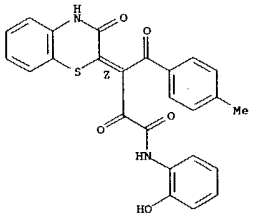
AB The reaction of 3-(4-methylbenzoyl)-1H-pyrrolo[2,1-c][1,4]benzoxazine-1,2,4-trione and of 3-benzoylpyrrolo[1,2-a]quinoxaline-1,2,4(5H)-trione with 2-aminobenzenethiol was reported.

IT **412269-74-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 412269-74-0 CAPLUS

CN Benzenebutanamide, β-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-N-(2-hydroxyphenyl)-4-methyl-α,γ-dioxo-, (βZ)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

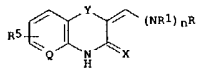
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:881149 CAPLUS
DOCUMENT NUMBER: 134:42147
TITLE: Preparation and effects of benzothiazinones and benzoxazinones as protein kinase inhibitors
INVENTOR(S): Rafferty, Paul; Calderwood, David; Arnold, Lee D.; Gonzalez Pascual, Beatriz; Ortego Matinez, Jose L.; Perez de Vega, Maria J.; Fernandez, Isabel F.
PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 183 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000075139	A2	20001214	WO 2000-US15324	20000602
WO 2000075139	A3	20010329		
W: AU, BG, BR, CA, CN, CZ, HR, HU, ID, IL, IN, JP, KR, MX, NO, NZ, PL, RU, SG, SK, TR, UA, US, ZA				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 1181282	A2	20020227	EP 2000-936476	20000602
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
BR 2000011063	A	20020416	BR 2000-11063	20000602
JP 2003501429	T2	20030114	JP 2001-502421	20000602
ZA 2001009610	A	20030221	ZA 2001-9610	20011121
NO 2001005899	A	20020130	NO 2001-5899	20011203
BG 106238	A	20020830	BG 2001-106238	20011219
PRIORITY APPLN. INFO.:			US 1999-137410P P	19990603
			WO 2000-US15324 W	20000602

OTHER SOURCE(S): MARPAT 134:42147
GI

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



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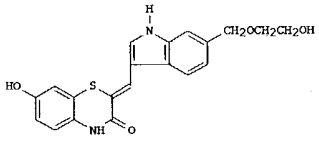


II

AB Title compds. [I; Q = N, CR2; X = S, O, NOR3; Y = S, O, SO, SO2; R, R1 independently = H, aliphatic, aryl, hetercyclyl; R2 = H, CH3; R3 = H, COR4; R4 = alkyl, alkenyl, alkynyl, aryl; n = 0, 1; R5 = 7-Cl, 7-CH3, 6-CF3, 6-CH3, 6-Cl, 7-OCH3, 6-CH3CONH, 7-OH, etc.] are prepared Title compds. and physiol. acceptable salts are inhibitors of receptor tyrosine kinase or non-receptor tyrosine kinase activity which involve in angiogenic process. Thus, title compds. can ameliorate disease states where angiogenesis or endothelial cell hyperproliferation is a factor and can be used to treat cancer and hyperproliferative disorders. Title compound II was prepared

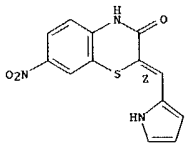
IT **312970-19-7P 312970-35-7P 312970-49-3P**
312972-81-9P 312972-84-2P 312973-50-5P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation and effects of benzothiazinones and benzoxazinones as protein
kinase inhibitors)

RN 312970-19-7 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 7-nitro-2-(1H-pyrrol-2-ylmethylene)-, (2Z)-(9CI) (CA INDEX NAME)

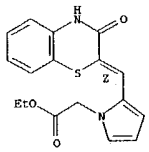
Double bond geometry as shown.

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

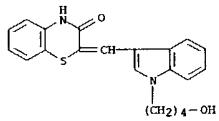


RN 312970-35-7 CAPLUS
CN 1H-Pyrrole-1-acetic acid, 2-[(Z)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, ethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



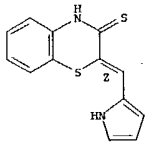
RN 312970-49-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(4-hydroxybutyl)-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



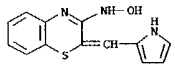
RN 312972-81-9 CAPLUS
CN 2H-1,4-Benzothiazine-3(4H)-thione, 2-(1H-pyrrol-2-ylmethylene)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

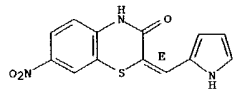


RN 312972-84-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrol-2-ylmethylene)-, oxime (9CI) (CA INDEX NAME)



RN 312973-50-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-nitro-2-(1H-pyrrol-2-ylmethylene)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT **312970-15-3P 312970-16-4P 312970-17-5P**
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L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
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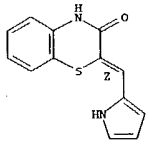
312972-04-6P 312972-05-7P 312972-06-8P
312972-07-9P 312972-08-0P 312972-09-1P
312972-10-4P 312972-11-5P 312972-12-6P
312972-13-7P 312972-14-8P 312972-15-9P
312972-16-0P 312972-17-1P 312972-18-2P
312972-19-3P 312972-20-6P 312972-21-7P
312972-79-5P 312972-80-8P 312972-85-3P
312972-86-4P 312972-87-5P 312972-88-6P
312972-91-1P 312972-92-2P 312972-93-3P
312972-94-4P 312972-95-5P 312972-96-6P
312972-97-7P 312972-98-8P 312972-99-9P
312973-00-5P 312973-01-6P 312973-02-7P
312973-03-8P 312973-04-9P 312973-05-0P

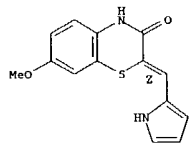
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
312973-46-9P 312973-47-0P 312973-48-1P
312973-49-2P 312973-51-6P 312973-52-7P
312973-53-8P 312973-54-9P 312973-55-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and effects of benzothiazinones and benzoxazinones as protein kinase inhibitors)
RN 312970-15-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrol-2-ylmethylene)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 312970-16-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-methoxy-2-(1H-pyrrol-2-ylmethylene)-, (2Z)- (9CI) (CA INDEX NAME)

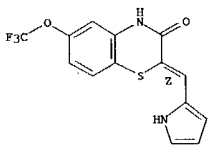
Double bond geometry as shown.



RN 312970-17-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrol-2-ylmethylene)-6-(trifluoromethoxy)-, (2Z)- (9CI) (CA INDEX NAME)

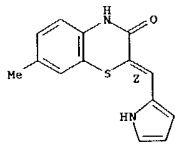
Double bond geometry as shown.

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



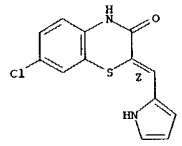
RN 312970-18-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-methyl-2-(1H-pyrrol-2-ylmethylene)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 312970-20-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-chloro-2-(1H-pyrrol-2-ylmethylene)-, (2Z)- (9CI) (CA INDEX NAME)

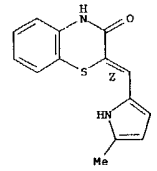
Double bond geometry as shown.



RN 312970-21-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 6-chloro-2-(1H-pyrrol-2-ylmethylene)-, (2Z)- (9CI) (CA INDEX NAME)

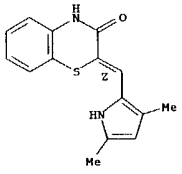
Double bond geometry as shown.

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



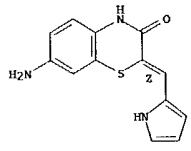
RN 312970-25-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3,5-dimethyl-1H-pyrrol-2-yl)methylene]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



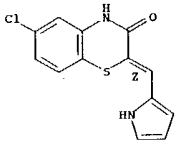
RN 312970-26-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-amino-2-(1H-pyrrol-2-ylmethylene)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



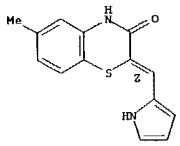
RN 312970-27-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4,5-dimethyl-1H-pyrrol-2-yl)methylene]- (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



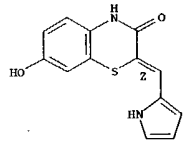
RN 312970-22-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 6-methyl-2-(1H-pyrrol-2-ylmethylene)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 312970-23-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-hydroxy-2-(1H-pyrrol-2-ylmethylene)-, (2Z)- (9CI) (CA INDEX NAME)

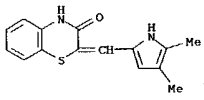
Double bond geometry as shown.



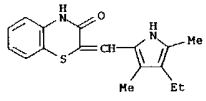
RN 312970-24-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(5-methyl-1H-pyrrol-2-yl)methylene]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

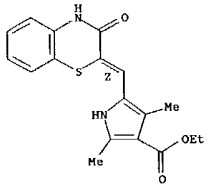


RN 312970-28-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-ethyl-3,5-dimethyl-1H-pyrrol-2-yl)methylene]- (9CI) (CA INDEX NAME)



RN 312970-29-9 CAPLUS
CN 1H-Pyrrole-3-carboxylic acid, 5-[(Z)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-2,4-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)

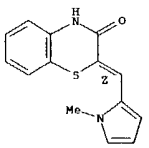
Double bond geometry as shown.



RN 312970-30-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1-methyl-1H-pyrrol-2-yl)methylene]-, (2Z)- (9CI) (CA INDEX NAME)

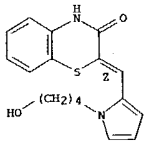
Double bond geometry as shown.

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



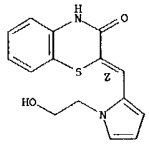
RN 312970-31-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(4-hydroxybutyl)-1H-pyrrol-2-yl]methylene]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 312970-32-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(2-hydroxyethyl)-1H-pyrrol-2-yl]methylene]-, (2Z)- (9CI) (CA INDEX NAME)

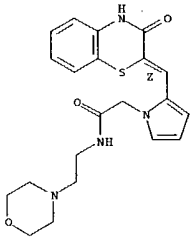
Double bond geometry as shown.



RN 312970-33-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[3-(dimethylamino)propyl]-1H-pyrrol-2-yl]methylene]-, (2Z)- (9CI) (CA INDEX NAME)

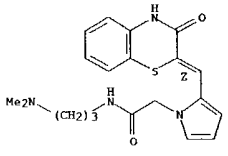
Double bond geometry as shown.

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312970-38-0 CAPLUS
CN 1H-Pyrrole-1-acetamide, 2-[(Z)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

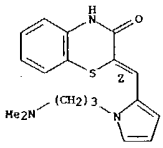
Double bond geometry as shown.



RN 312970-39-1 CAPLUS
CN 1H-Pyrrole-1-acetamide, 2-[(Z)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)

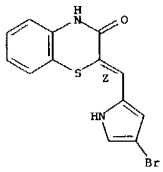
Double bond geometry as shown.

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



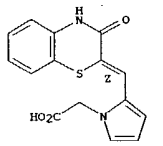
RN 312970-34-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-bromo-1H-pyrrol-2-yl)methylene]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 312970-36-8 CAPLUS
CN 1H-Pyrrole-1-acetic acid, 2-[(Z)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]- (9CI) (CA INDEX NAME)

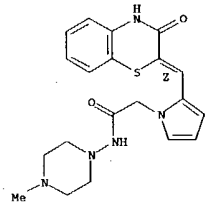
Double bond geometry as shown.



RN 312970-37-9 CAPLUS
CN 1H-Pyrrole-1-acetamide, 2-[(Z)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)

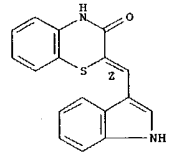
Double bond geometry as shown.

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

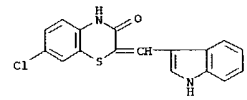


RN 312970-40-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-3-ylmethylene)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

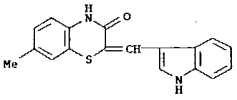


RN 312970-41-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-chloro-2-(1H-indol-3-ylmethylene)- (9CI) (CA INDEX NAME)

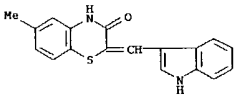


RN 312970-42-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-3-ylmethylene)-7-methyl- (9CI) (CA INDEX NAME)

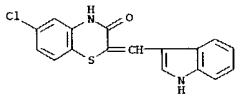
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



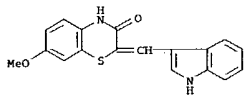
RN 312970-43-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-3-ylmethylene)-6-methyl- (9CI) (CA INDEX NAME)



RN 312970-44-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 6-chloro-2-(1H-indol-3-ylmethylene)- (9CI) (CA INDEX NAME)



RN 312970-45-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-3-ylmethylene)-7-methoxy- (9CI) (CA INDEX NAME)



RN 312970-46-0 CAPLUS
CN Acetamide, N-[3,4-dihydro-2-(1H-indol-3-ylmethylene)-3-oxo-2H-1,4-benzothiazin-6-yl]- (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

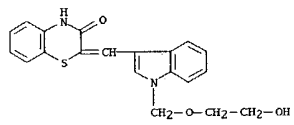
RN 312970-47-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-3-ylmethylene)-7-nitro- (9CI) (CA INDEX NAME)

RN 312970-48-2 CAPLUS
CN Acetamide, N-[3,4-dihydro-2-(1H-indol-3-ylmethylene)-3-oxo-2H-1,4-benzothiazin-7-yl]- (9CI) (CA INDEX NAME)

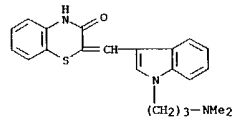
RN 312970-50-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(5-methoxy-1H-indol-3-yl)methylene]- (9CI) (CA INDEX NAME)

RN 312970-51-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[(2-hydroxyethoxy)methyl]-1H-indol-3-

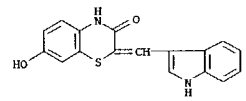
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
yl]methylene]- (9CI) (CA INDEX NAME)



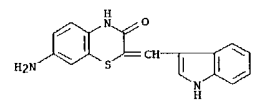
RN 312970-52-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[3-(dimethylamino)propyl]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



RN 312970-53-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-hydroxy-2-(1H-indol-3-ylmethylene)- (9CI) (CA INDEX NAME)

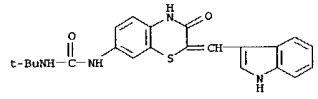


RN 312970-54-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-amino-2-(1H-indol-3-ylmethylene)- (9CI) (CA INDEX NAME)

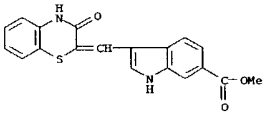


RN 312970-55-1 CAPLUS
CN Urea, N-[3,4-dihydro-2-(1H-indol-3-ylmethylene)-3-oxo-2H-1,4-benzothiazin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

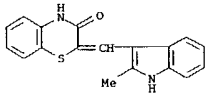
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



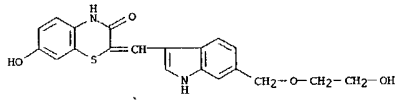
RN 312970-56-2 CAPLUS
CN 1H-Indole-6-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 312970-57-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-methyl-1H-indol-3-yl)methylene]- (9CI) (CA INDEX NAME)

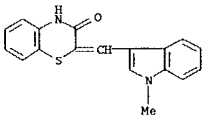


RN 312970-58-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-hydroxy-2-[[6-[(2-hydroxyethoxy)methyl]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)

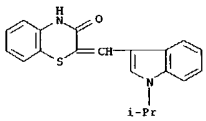


RN 312970-59-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1-methyl-1H-indol-3-yl)methylene]- (9CI) (CA INDEX NAME)

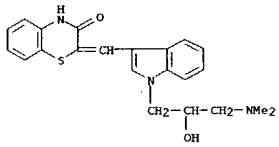
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



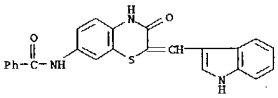
RN 312970-60-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(1-methylethyl)-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



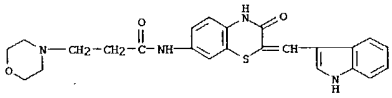
RN 312970-61-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[3-(dimethylamino)-2-hydroxypropyl]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



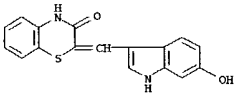
RN 312970-62-0 CAPLUS
CN Benzamide, N-[3,4-dihydro-2-(1H-indol-3-ylmethylene)-3-oxo-2H-1,4-benzothiazin-7-yl]- (9CI) (CA INDEX NAME)



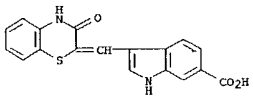
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



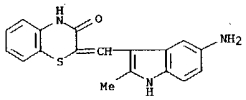
RN 312970-67-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(6-hydroxy-1H-indol-3-yl)methylene]- (9CI) (CA INDEX NAME)



RN 312970-68-6 CAPLUS
CN 1H-Indole-6-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]- (9CI) (CA INDEX NAME)

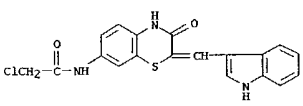


RN 312970-69-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(5-amino-2-methyl-1H-indol-3-yl)methylene]- (9CI) (CA INDEX NAME)

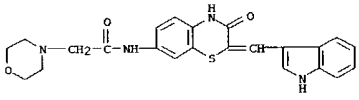


RN 312970-70-0 CAPLUS
CN 1H-Indole-6-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, 2-(dimethylamino)ethyl ester (9CI) (CA INDEX NAME)

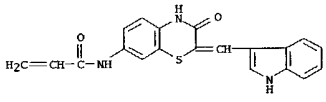
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312970-63-1 CAPLUS
CN Acetamide, 2-chloro-N-[3,4-dihydro-2-(1H-indol-3-ylmethylene)-3-oxo-2H-1,4-benzothiazin-7-yl]- (9CI) (CA INDEX NAME)



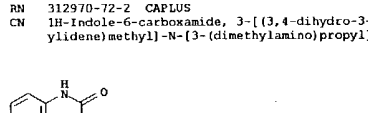
RN 312970-64-2 CAPLUS
CN 4-Morpholineacetamide, N-[3,4-dihydro-2-(1H-indol-3-ylmethylene)-3-oxo-2H-1,4-benzothiazin-7-yl]- (9CI) (CA INDEX NAME)



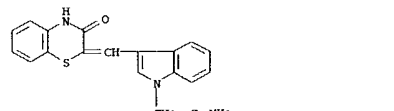
RN 312970-65-3 CAPLUS
CN 2-Propenamide, N-[3,4-dihydro-2-(1H-indol-3-ylmethylene)-3-oxo-2H-1,4-benzothiazin-7-yl]- (9CI) (CA INDEX NAME)

RN 312970-66-4 CAPLUS
CN 4-Morpholinepropanamide, N-[3,4-dihydro-2-(1H-indol-3-ylmethylene)-3-oxo-2H-1,4-benzothiazin-7-yl]- (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312970-71-1 CAPLUS
CN 1H-Indole-6-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, 2-(4-morpholinyl)ethyl ester (9CI) (CA INDEX NAME)

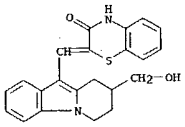


RN 312970-72-2 CAPLUS
CN 1H-Indole-6-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

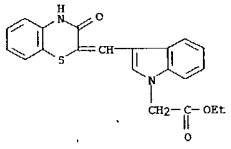
RN 312970-73-3 CAPLUS
CN 1H-Indole-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]- (9CI) (CA INDEX NAME)

RN 312970-74-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6,7,8,9-tetrahydro-8-

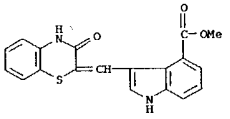
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
(hydroxymethyl)pyrido[1,2-a]indol-10-yl]methylene]- (9CI) (CA INDEX NAME)



RN 312970-75-5 CAPLUS
CN 1H-Indole-1-acetic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, ethyl ester (9CI) (CA INDEX NAME)

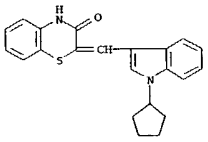


RN 312970-76-6 CAPLUS
CN 1H-Indole-4-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, methyl ester (9CI) (CA INDEX NAME)

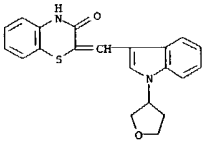


RN 312970-77-7 CAPLUS
CN 1H-Indole-1-acetic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-α-methyl-, ethyl ester (9CI) (CA INDEX NAME)

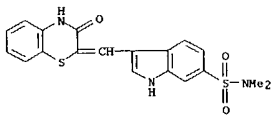
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



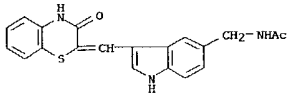
RN 312970-81-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(tetrahydro-3-furanyl)-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



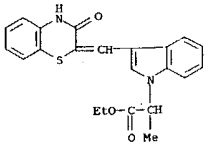
RN 312970-82-4 CAPLUS
CN 1H-Indole-6-sulfonamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



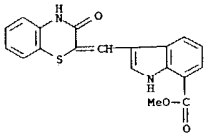
RN 312970-83-5 CAPLUS
CN Acetamide, N-[[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1H-indol-5-yl]methyl]- (9CI) (CA INDEX NAME)



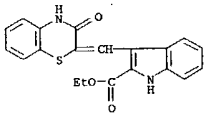
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312970-78-8 CAPLUS
CN 1H-Indole-7-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, methyl ester (9CI) (CA INDEX NAME)

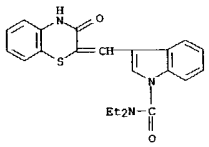


RN 312970-79-9 CAPLUS
CN 1H-Indole-2-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, ethyl ester (9CI) (CA INDEX NAME)

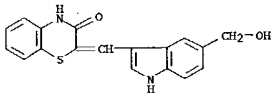


RN 312970-80-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1-cyclopentyl-1H-indol-3-yl)methylene]- (9CI) (CA INDEX NAME)

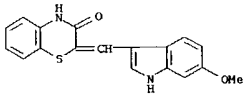
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 312970-84-6 CAPLUS
CN 1H-Indole-1-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N,N-diethyl- (9CI) (CA INDEX NAME)



RN 312970-85-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[5-(hydroxymethyl)-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



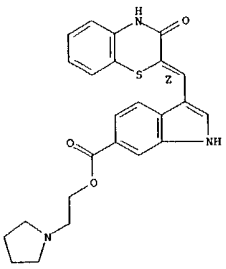
RN 312970-86-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(6-methoxy-1H-indol-3-yl)methylene]- (9CI) (CA INDEX NAME)



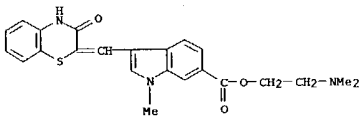
RN 312970-87-9 CAPLUS
CN 1H-Indole-6-carboxylic acid, 3-[(Z)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, 2-(1-pyrrolidinyl)ethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

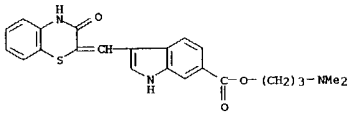
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312970-88-0 CAPLUS
CN 1H-Indole-6-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1-methyl-, 2-(dimethylamino)ethyl ester (9CI) (CA INDEX NAME)

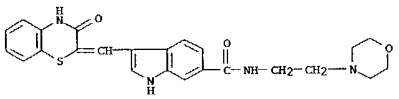


RN 312970-89-1 CAPLUS
CN 1H-Indole-6-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, 3-(dimethylamino)propyl ester (9CI) (CA INDEX NAME)

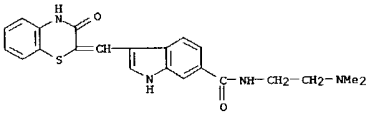


RN 312970-90-4 CAPLUS
CN 1H-Indole-6-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-

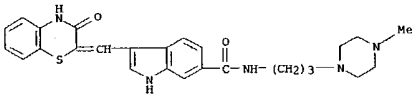
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



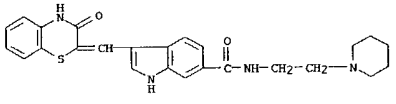
RN 312970-93-7 CAPLUS
CN 1H-Indole-6-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(dimethylamino)ethyl]- (9CI) (CA INDEX NAME)



RN 312970-94-8 CAPLUS
CN 1H-Indole-6-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[3-(4-methyl-1-piperazinyl)propyl]- (9CI) (CA INDEX NAME)

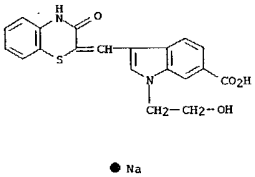


RN 312970-95-9 CAPLUS
CN 1H-Indole-6-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(1-piperidinyl)ethyl]- (9CI) (CA INDEX NAME)



RN 312970-96-0 CAPLUS
CN 1H-Indole-6-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

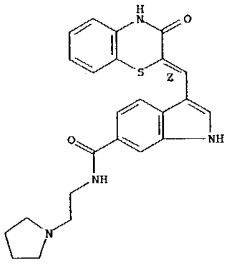
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
ylidene)methyl]-1-(2-hydroxyethyl)-, monosodium salt (9CI) (CA INDEX NAME)



● Na

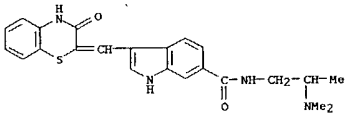
RN 312970-91-5 CAPLUS
CN 1H-Indole-6-carboxamide, 3-[(Z)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(1-pyrrolidinyl)ethyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

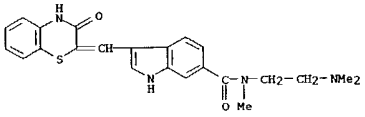


RN 312970-92-6 CAPLUS
CN 1H-Indole-6-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)

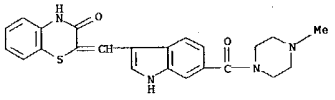
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312970-97-1 CAPLUS
CN 1H-Indole-6-carboxamide, 3-((3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(dimethylamino)ethyl]-N-methyl- (9CI) (CA INDEX NAME)

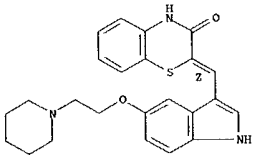


RN 312970-98-2 CAPLUS
CN Piperazine, 1-[[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1H-indol-6-yl]carbonyl]-4-methyl- (9CI) (CA INDEX NAME)

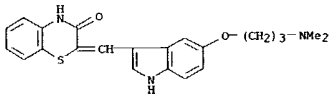


RN 312970-99-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[5-[2-(1-piperidinyl)ethoxy]-1H-indol-3-yl]methylene]-, (2Z)- (9CI) (CA INDEX NAME)

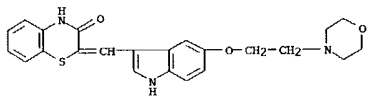
Double bond geometry as shown.



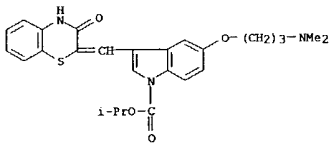
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 312971-00-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[5-[3-(dimethylamino)propoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



RN 312971-01-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[5-[2-(4-morpholinyl)ethoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)

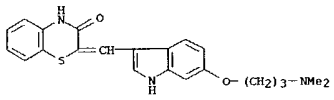


RN 312971-02-1 CAPLUS
CN 1H-Indole-1-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-5-[3-(dimethylamino)propoxy]-, 1-methylethyl ester (9CI) (CA INDEX NAME)

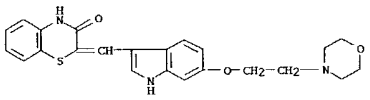


RN 312971-03-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[5-[3-(dimethylamino)propoxy]-1-methyl-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)

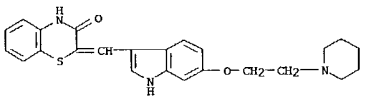
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6-[3-(dimethylamino)propoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



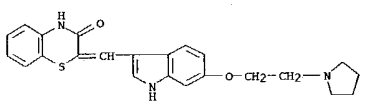
RN 312971-08-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6-[2-(4-morpholinyl)ethoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



RN 312971-09-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6-[2-(1-piperidinyl)ethoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)

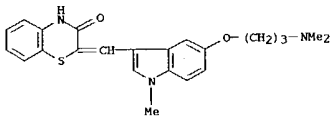


RN 312971-10-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6-[2-(1-pyrrolidinyl)ethoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)

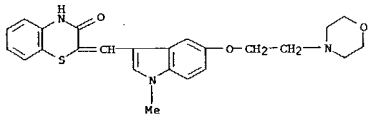


RN 312971-11-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6-[2-(dimethylamino)ethoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)

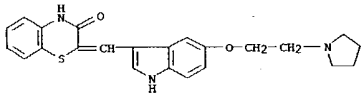
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



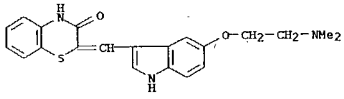
RN 312971-04-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-methyl-5-[2-(4-morpholinyl)ethoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



RN 312971-05-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[5-[2-(1-pyrrolidinyl)ethoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)

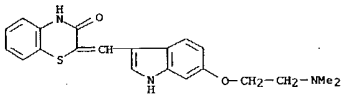


RN 312971-06-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[5-[2-(dimethylamino)ethoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)

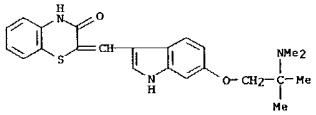


RN 312971-07-6 CAPLUS

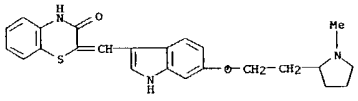
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



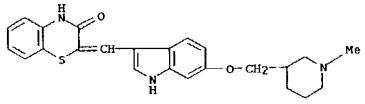
RN 312971-12-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6-[2-(dimethylamino)-2-methylpropoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



RN 312971-13-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6-[2-(1-methyl-2-pyrrolidinyl)ethoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)

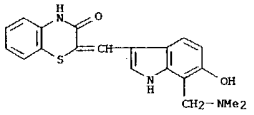


RN 312971-14-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6-[(1-methyl-3-piperidinyl)methoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)

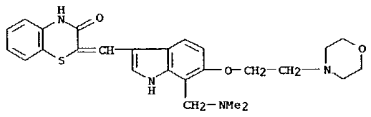


RN 312971-15-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[7-[(dimethylamino)methyl]-6-hydroxy-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)

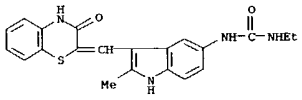
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



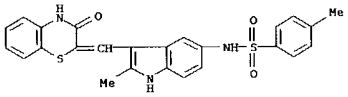
RN 312971-16-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[7-[(dimethylamino)methyl]-6-[2-(4-morpholinyl)ethoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



RN 312971-17-8 CAPLUS
CN Urea, N-[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-2-methyl-1H-indol-5-yl]-N'-ethyl- (9CI) (CA INDEX NAME)

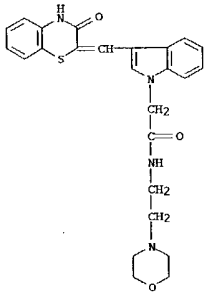


RN 312971-18-9 CAPLUS
CN Benzenesulfonamide, N-[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-2-methyl-1H-indol-5-yl]-4-methyl- (9CI) (CA INDEX NAME)

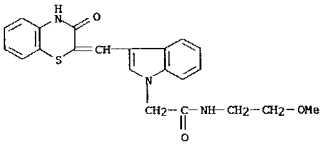


RN 312971-19-0 CAPLUS

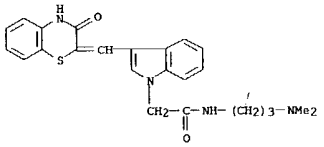
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312971-23-6 CAPLUS
CN 1H-Indole-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-(2-methoxyethyl)- (9CI) (CA INDEX NAME)

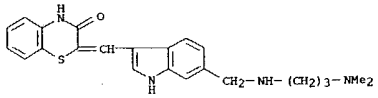


RN 312971-24-7 CAPLUS
CN 1H-Indole-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

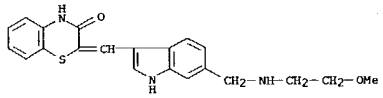


RN 312971-25-8 CAPLUS

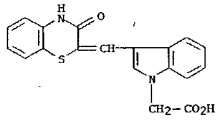
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6-[[[3-(dimethylamino)propyl]amino]methyl]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



RN 312971-20-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6-[[(2-methoxyethyl)amino]methyl]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)

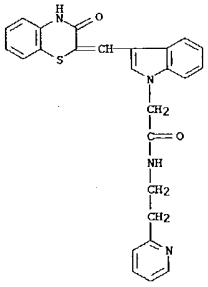


RN 312971-21-4 CAPLUS
CN 1H-Indole-1-acetic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]- (9CI) (CA INDEX NAME)

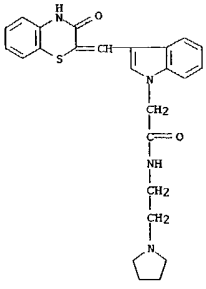


RN 312971-22-5 CAPLUS
CN 1H-Indole-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CN 1H-Indole-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(2-pyridinyl)ethyl]- (9CI) (CA INDEX NAME)

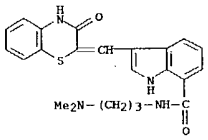


RN 312971-26-9 CAPLUS
CN 1H-Indole-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(1-pyrrolidinyl)ethyl]- (9CI) (CA INDEX NAME)

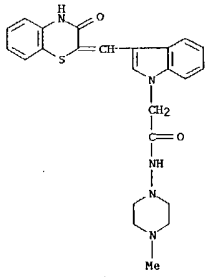


RN 312971-27-0 CAPLUS
CN 1H-Indole-7-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

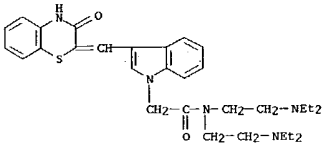


RN 312971-28-1 CAPLUS
CN 1H-Indole-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)

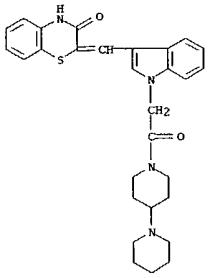


RN 312971-29-2 CAPLUS
CN 1H-Indole-1-acetamide, N,N-bis[2-(diethylamino)ethyl]-3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

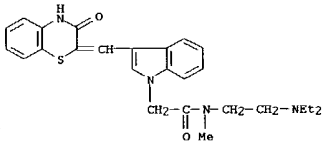


RN 312971-30-5 CAPLUS
CN 1,4'-Bipiperidine, 1'-[[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1H-indol-1-yl]acetyl]- (9CI) (CA INDEX NAME)

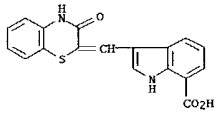


RN 312971-31-6 CAPLUS
CN 1H-Indole-1-acetamide, N-[2-(diethylamino)ethyl]-3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-methyl- (9CI) (CA INDEX NAME)

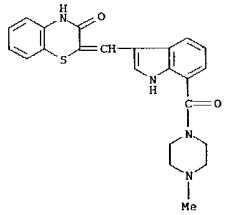
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312971-32-7 CAPLUS
CN 1H-Indole-7-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]- (9CI) (CA INDEX NAME)

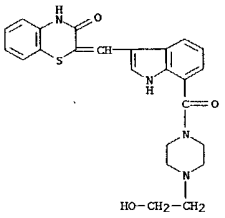


RN 312971-33-8 CAPLUS
CN Piperazine, 1-[[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1H-indol-7-yl]carbonyl]-4-methyl- (9CI) (CA INDEX NAME)

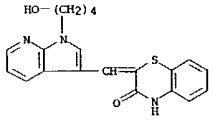


RN 312971-34-9 CAPLUS
CN 1-Piperazineethanol, 4-[[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1H-indol-7-yl]carbonyl]- (9CI) (CA INDEX NAME)

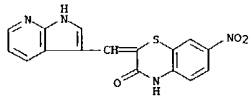
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312971-35-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(4-hydroxybutyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]methylene]- (9CI) (CA INDEX NAME)

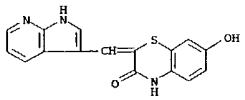


RN 312971-36-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-nitro-2-(1H-pyrrolo[2,3-b]pyridin-3-ylmethylene)- (9CI) (CA INDEX NAME)

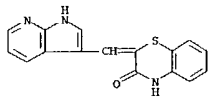


RN 312971-37-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-hydroxy-2-(1H-pyrrolo[2,3-b]pyridin-3-ylmethylene)- (9CI) (CA INDEX NAME)

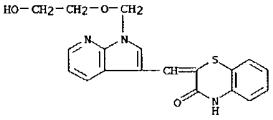
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



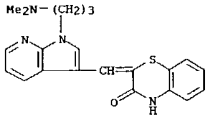
RN 312971-38-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrolo[2,3-b]pyridin-3-ylmethylene)- (9CI) (CA INDEX NAME)



RN 312971-39-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[(2-hydroxyethoxy)methyl]-1H-pyrrolo[2,3-b]pyridin-3-yl]methylene]- (9CI) (CA INDEX NAME)

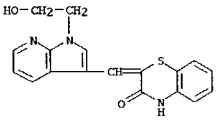


RN 312971-40-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[3-(dimethylamino)propyl]-1H-pyrrolo[2,3-b]pyridin-3-yl]methylene]- (9CI) (CA INDEX NAME)

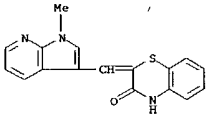


RN 312971-41-8 CAPLUS

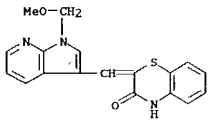
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



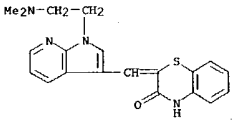
RN 312971-45-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1-methyl-1H-pyrrolo[2,3-b]pyridin-3-yl)methylene]- (9CI) (CA INDEX NAME)



RN 312971-46-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(methoxymethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]methylene]- (9CI) (CA INDEX NAME)

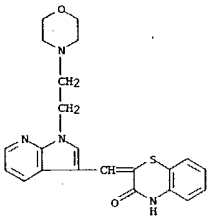


RN 312971-47-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[2-(dimethylamino)ethyl]-1H-pyrrolo[2,3-b]pyridin-3-yl]methylene]- (9CI) (CA INDEX NAME)

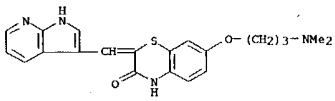


RN 312971-48-5 CAPLUS
CN 1H-Pyrrolo[2,3-b]pyridine-1-acetic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, ethyl ester (9CI) (CA INDEX NAME)

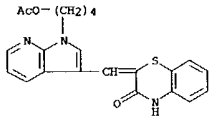
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[2-(4-morpholinyl)ethyl]-1H-pyrrolo[2,3-b]pyridin-3-yl]methylene]- (9CI) (CA INDEX NAME)



RN 312971-42-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-[3-(dimethylamino)propoxy]-2-(1H-pyrrolo[2,3-b]pyridin-3-ylmethylene)- (9CI) (CA INDEX NAME)

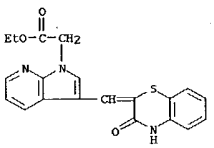


RN 312971-43-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[4-(acetyloxy)butyl]-1H-pyrrolo[2,3-b]pyridin-3-yl]methylene]- (9CI) (CA INDEX NAME)

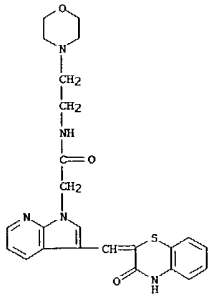


RN 312971-44-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(2-hydroxyethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]methylene]- (9CI) (CA INDEX NAME)

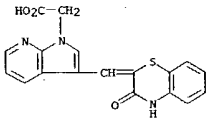
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312971-49-6 CAPLUS
CN 1H-Pyrrolo[2,3-b]pyridine-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)

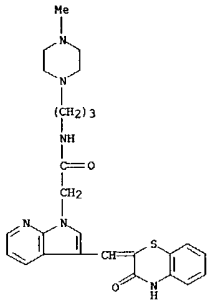


RN 312971-50-9 CAPLUS
CN 1H-Pyrrolo[2,3-b]pyridine-1-acetic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]- (9CI) (CA INDEX NAME)

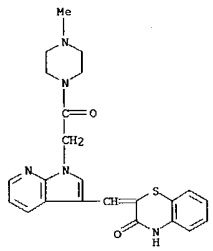


RN 312971-51-0 CAPLUS
CN 1H-Pyrrolo[2,3-b]pyridine-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
benzothiazin-2-ylidene)methyl]-N-[3-(4-methyl-1-piperazinyl)propyl]- (9CI) (CA INDEX NAME)

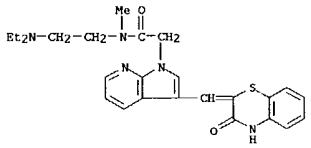


RN 312971-52-1 CAPLUS
CN Piperazine, 1-[[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1H-pyrrolo[2,3-b]pyridin-1-yl]acetyl]-4-methyl- (9CI) (CA INDEX NAME)

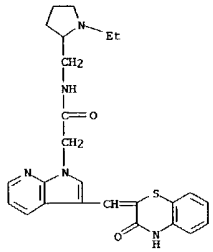


RN 312971-53-2 CAPLUS

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CN 1H-Pyrrolo[2,3-b]pyridine-1-acetamide, N-[2-(diethylamino)ethyl]-3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-methyl- (9CI) (CA INDEX NAME)

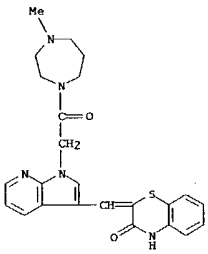


RN 312971-54-3 CAPLUS
CN 1H-Pyrrolo[2,3-b]pyridine-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[(1-ethyl-2-pyrrolidinyl)methyl]- (9CI) (CA INDEX NAME)

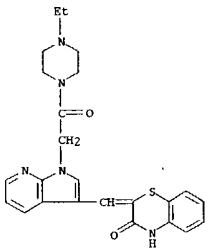


RN 312971-55-4 CAPLUS
CN 1H-1,4-Diazepine, 1-[[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1H-pyrrolo[2,3-b]pyridin-1-yl]acetyl]hexahydro-4-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

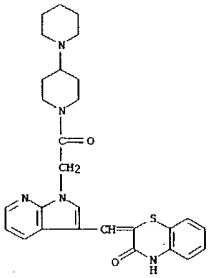


RN 312971-56-5 CAPLUS
CN Piperazine, 1-[[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1H-pyrrolo[2,3-b]pyridin-1-yl]acetyl]-4-ethyl- (9CI) (CA INDEX NAME)

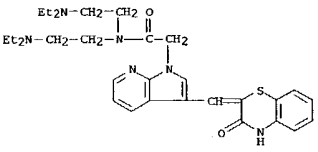


RN 312971-57-6 CAPLUS
CN 1,4'-Bipiperidine, 1'-[[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1H-pyrrolo[2,3-b]pyridin-1-yl]acetyl]- (9CI) (CA INDEX NAME)

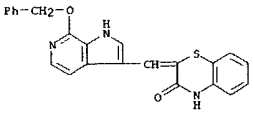
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312971-58-7 CAPLUS
CN 1H-Pyrrolo[2,3-b]pyridine-1-acetamide, N,N-bis[2-(diethylamino)ethyl]-3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]- (9CI) (CA INDEX NAME)

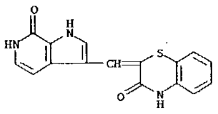


RN 312971-59-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[7-(phenylmethoxy)-1H-pyrrolo[2,3-c]pyridin-3-yl]methylene]- (9CI) (CA INDEX NAME)

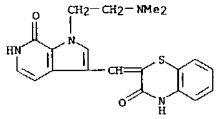


RN 312971-60-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(6,7-dihydro-7-oxo-1H-pyrrolo[2,3-c]pyridin-3-yl)methylene]- (9CI) (CA INDEX NAME)

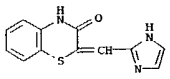
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312971-61-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[2-(dimethylamino)ethyl]-6,7-dihydro-7-oxo-1H-pyrrolo[2,3-c]pyridin-3-yl]methylene]- (9CI) (CA INDEX NAME)

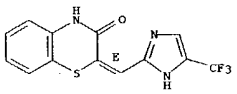


RN 312971-62-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-imidazol-2-ylmethylene)- (9CI) (CA INDEX NAME)



RN 312971-63-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-(trifluoromethyl)-1H-imidazol-2-yl]methylene]-, (2E)- (9CI) (CA INDEX NAME)

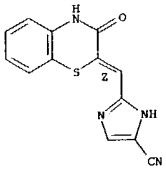
Double bond geometry as shown.



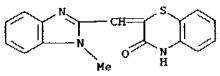
RN 312971-64-5 CAPLUS

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CN 1H-Imidazole-4-carbonitrile, 2-[(Z)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]- (9CI) (CA INDEX NAME)

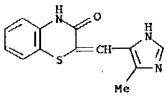
Double bond geometry as shown.



RN 312971-65-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1-methyl-1H-benzimidazol-2-yl)methylene]- (9CI) (CA INDEX NAME)

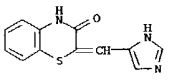


RN 312971-66-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(5-methyl-1H-imidazol-4-yl)methylene]- (9CI) (CA INDEX NAME)

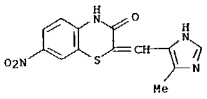


RN 312971-67-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-imidazol-4-ylmethylene)- (9CI) (CA INDEX NAME)

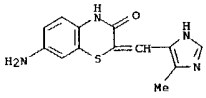
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



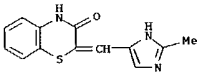
RN 312971-68-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(5-methyl-1H-imidazol-4-yl)methylene]-7-nitro- (9CI) (CA INDEX NAME)



RN 312971-69-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-amino-2-[(5-methyl-1H-imidazol-4-yl)methylene]- (9CI) (CA INDEX NAME)

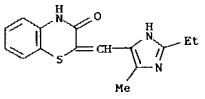


RN 312971-70-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-methyl-1H-imidazol-4-yl)methylene]- (9CI) (CA INDEX NAME)

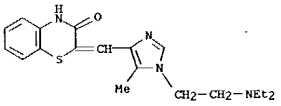


RN 312971-71-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-ethyl-5-methyl-1H-imidazol-4-yl)methylene]- (9CI) (CA INDEX NAME)

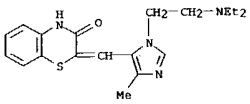
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



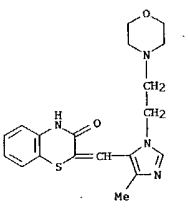
RN 312971-72-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[2-(diethylamino)ethyl]-5-methyl-1H-imidazol-4-yl]methylene]- (9CI) (CA INDEX NAME)



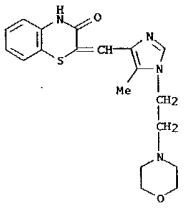
RN 312971-73-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[2-(diethylamino)ethyl]-4-methyl-1H-imidazol-5-yl]methylene]- (9CI) (CA INDEX NAME)



RN 312971-74-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-methyl-1-[2-(4-morpholinyl)ethyl]-1H-imidazol-5-yl]methylene]- (9CI) (CA INDEX NAME)

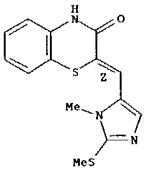


L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 312971-75-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[5-methyl-1-[2-(4-morpholinyl)ethyl]-1H-imidazol-4-yl]methylene]- (9CI) (CA INDEX NAME)



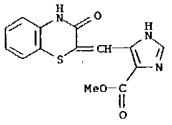
RN 312971-76-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-methyl-2-(methylthio)-1H-imidazol-5-yl]methylene]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



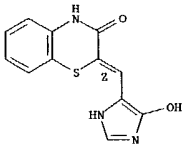
RN 312971-77-0 CAPLUS
CN 1H-Imidazole-4-carboxylic acid, 5-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, methyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

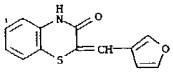


RN 312971-78-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(5-hydroxy-1H-imidazol-4-yl)methylene]-, (2Z)- (9CI) (CA INDEX NAME)

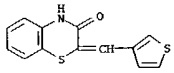
Double bond geometry as shown.



RN 312971-79-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(3-furanylmethylene)- (9CI) (CA INDEX NAME)

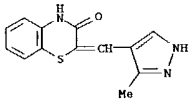


RN 312971-80-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(3-thienylmethylene)- (9CI) (CA INDEX NAME)

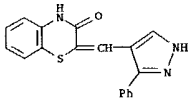


RN 312971-81-6 CAPLUS

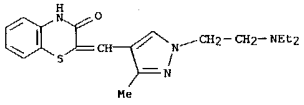
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3-methyl-1H-pyrazol-4-yl)methylene]- (9CI) (CA INDEX NAME)



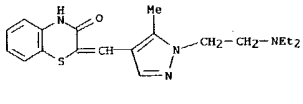
RN 312971-82-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3-phenyl-1H-pyrazol-4-yl)methylene]- (9CI) (CA INDEX NAME)



RN 312971-83-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[2-(diethylamino)ethyl]-3-methyl-1H-pyrazol-4-yl]methylene]- (9CI) (CA INDEX NAME)

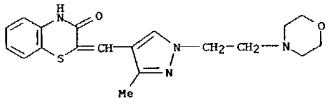


RN 312971-84-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[2-(diethylamino)ethyl]-5-methyl-1H-pyrazol-4-yl]methylene]- (9CI) (CA INDEX NAME)

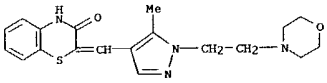


RN 312971-85-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-methyl-1-[2-(4-morpholinyl)ethyl]-1H-pyrazol-4-yl]methylene]- (9CI) (CA INDEX NAME)

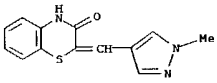
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



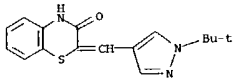
RN 312971-86-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[5-methyl-1-[2-(4-morpholinyl)ethyl]-1H-pyrazol-4-yl]methylene]- (9CI) (CA INDEX NAME)



RN 312971-87-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1-methyl-1H-pyrazol-4-yl)methylene]- (9CI) (CA INDEX NAME)

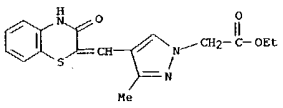


RN 312971-88-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(1,1-dimethylethyl)-1H-pyrazol-4-yl]methylene]- (9CI) (CA INDEX NAME)

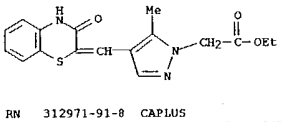


RN 312971-89-4 CAPLUS
CN 1H-Pyrazole-1-acetic acid, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-3-methyl-, ethyl ester (9CI) (CA INDEX NAME)

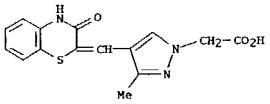
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



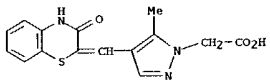
RN 312971-90-7 CAPLUS
CN 1H-Pyrazole-1-acetic acid, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-5-methyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 312971-91-8 CAPLUS
CN 1H-Pyrazole-1-acetic acid, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-3-methyl- (9CI) (CA INDEX NAME)

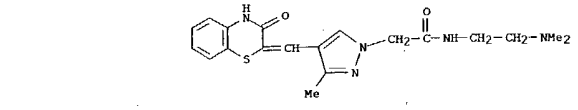


RN 312971-92-9 CAPLUS
CN 1H-Pyrazole-1-acetic acid, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-5-methyl- (9CI) (CA INDEX NAME)

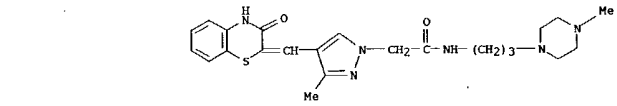


RN 312971-93-0 CAPLUS
CN 1H-Pyrazole-1-acetamide, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(dimethylamino)ethyl]-3-methyl- (9CI) (CA INDEX NAME)

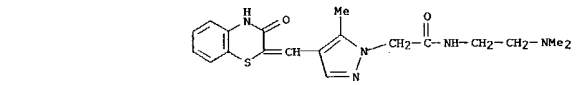
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



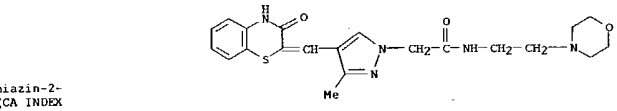
RN 312971-94-1 CAPLUS
CN 1H-Pyrazole-1-acetamide, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-3-methyl-N-[3-(4-methyl-1-piperazinyl)propyl]- (9CI) (CA INDEX NAME)



RN 312971-95-2 CAPLUS
CN 1H-Pyrazole-1-acetamide, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(dimethylamino)ethyl]-5-methyl- (9CI) (CA INDEX NAME)

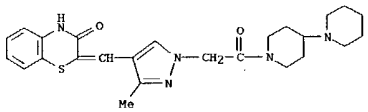


RN 312971-96-3 CAPLUS
CN 1H-Pyrazole-1-acetamide, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-3-methyl-N-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)

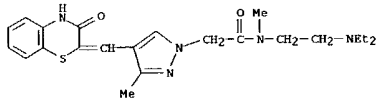


RN 312971-97-4 CAPLUS

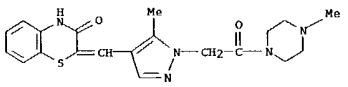
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CN 1,4'-Bipiperidine, 1'-[[4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-3-methyl-1H-pyrazol-1-yl]acetyl]- (9CI) (CA INDEX NAME)



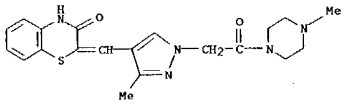
RN 312971-98-5 CAPLUS
CN 1H-Pyrazole-1-acetamide, N-[2-(diethylamino)ethyl]-4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N,3-dimethyl- (9CI) (CA INDEX NAME)



RN 312971-99-6 CAPLUS
CN Piperazine, 1-[[4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-5-methyl-1H-pyrazol-1-yl]acetyl]-4-methyl- (9CI) (CA INDEX NAME)

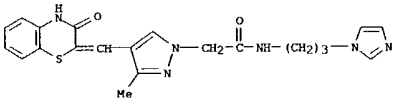


RN 312972-00-2 CAPLUS
CN Piperazine, 1-[[4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-3-methyl-1H-pyrazol-1-yl]acetyl]-4-methyl- (9CI) (CA INDEX NAME)

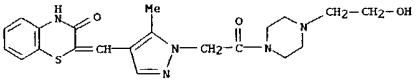


RN 312972-01-3 CAPLUS
CN 1H-Pyrazole-1-acetamide, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
ylidene)methyl]-N-[3-(1H-imidazol-1-yl)propyl]-3-methyl- (9CI) (CA INDEX NAME)

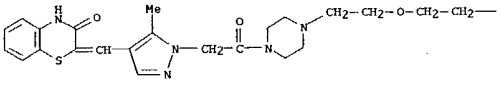


RN 312972-02-4 CAPLUS
CN 1-Piperazineethanol, 4-[[4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-5-methyl-1H-pyrazol-1-yl]acetyl]- (9CI) (CA INDEX NAME)



RN 312972-03-5 CAPLUS
CN Piperazine, 1-[[4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-5-methyl-1H-pyrazol-1-yl]acetyl]-4-[2-(2-hydroxyethoxy)ethyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



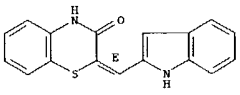
PAGE 1-B

—OH

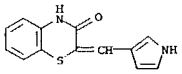
RN 312972-04-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-2-ylmethylene)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

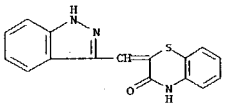
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



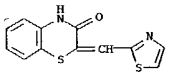
RN 312972-05-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrol-3-ylmethylene)- (9CI) (CA INDEX NAME)



RN 312972-06-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indazol-3-ylmethylene)- (9CI) (CA INDEX NAME)

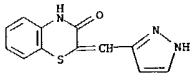


RN 312972-07-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-thiazolylmethylene)- (9CI) (CA INDEX NAME)

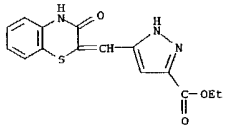


RN 312972-08-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrazol-3-ylmethylene)- (9CI) (CA INDEX NAME)

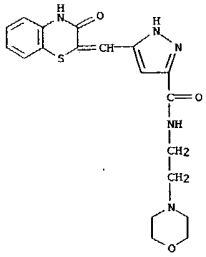
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312972-09-1 CAPLUS
CN 1H-Pyrazole-3-carboxylic acid, 5-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, ethyl ester (9CI) (CA INDEX NAME)

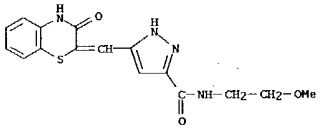


RN 312972-10-4 CAPLUS
CN 1H-Pyrazole-3-carboxamide, 5-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)

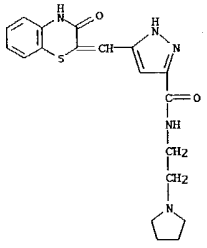


RN 312972-11-5 CAPLUS
CN 1H-Pyrazole-3-carboxamide, 5-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-(2-methoxyethyl)- (9CI) (CA INDEX NAME)

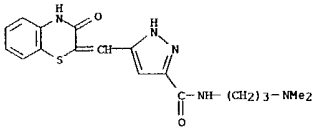
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312972-12-6 CAPLUS
CN 1H-Pyrazole-3-carboxamide, 5-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(1-pyrrolidinyl)ethyl]- (9CI) (CA INDEX NAME)

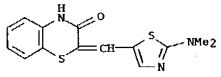


RN 312972-13-7 CAPLUS
CN 1H-Pyrazole-3-carboxamide, 5-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

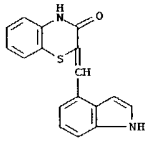


RN 312972-14-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[2-(dimethylamino)-5-thiazolyl]methylene]- (9CI) (CA INDEX NAME)

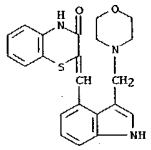
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



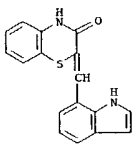
RN 312972-15-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-4-ylmethylene)- (9CI) (CA INDEX NAME)



RN 312972-16-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-(4-morpholinylmethyl)-1H-indol-4-yl]methylene]- (9CI) (CA INDEX NAME)

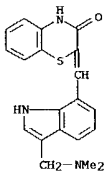


RN 312972-17-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-7-ylmethylene)- (9CI) (CA INDEX NAME)

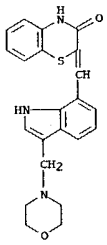


L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 312972-18-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-[(dimethylamino)methyl]-1H-indol-7-yl]methylene]- (9CI) (CA INDEX NAME)

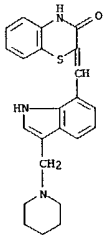


RN 312972-19-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-(4-morpholinylmethyl)-1H-indol-7-yl]methylene]- (9CI) (CA INDEX NAME)

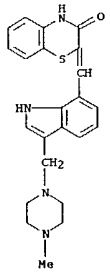


RN 312972-20-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-(1-piperidinylmethyl)-1H-indol-7-yl]methylene]- (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

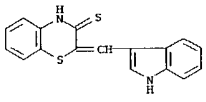


RN 312972-21-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-[(4-methyl-1-piperazinyl)methyl]-1H-indol-7-yl]methylene]- (9CI) (CA INDEX NAME)

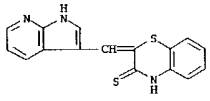


RN 312972-79-5 CAPLUS
CN 2H-1,4-Benzothiazine-3(4H)-thione, 2-(1H-indol-3-ylmethylene)- (9CI) (CA INDEX NAME)

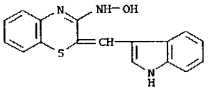
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



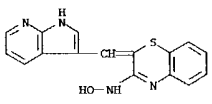
RN 312972-80-8 CAPLUS
CN 2H-1,4-Benzothiazine-3(4H)-thione, 2-(1H-pyrrolo[2,3-b]pyridin-3-ylmethylene)- (9CI) (CA INDEX NAME)



RN 312972-85-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-3-ylmethylene)-, oxime (9CI) (CA INDEX NAME)

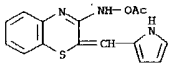


RN 312972-86-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrolo[2,3-b]pyridin-3-ylmethylene)-, oxime (9CI) (CA INDEX NAME)

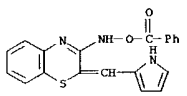


RN 312972-87-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrol-2-ylmethylene)-, O-acetyloxime (9CI) (CA INDEX NAME)

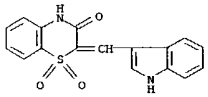
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



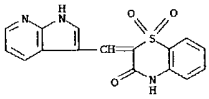
RN 312972-88-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrol-2-ylmethylene)-, O-benzoyloxime (9CI) (CA INDEX NAME)



RN 312972-91-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-3-ylmethylene)-, 1,1-dioxide (9CI) (CA INDEX NAME)

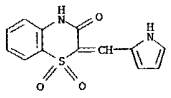


RN 312972-92-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrolo[2,3-b]pyridin-3-ylmethylene)-, 1,1-dioxide (9CI) (CA INDEX NAME)

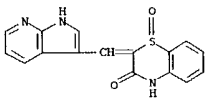


RN 312972-93-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrol-2-ylmethylene)-, 1,1-dioxide (9CI) (CA INDEX NAME)

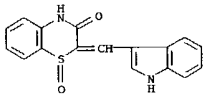
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



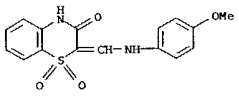
RN 312972-94-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrolo[2,3-b]pyridin-3-ylmethylene)-, 1-oxide (9CI) (CA INDEX NAME)



RN 312972-95-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-3-ylmethylene)-, 1-oxide (9CI) (CA INDEX NAME)



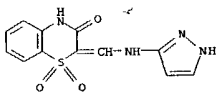
RN 312972-96-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[(4-methoxyphenyl)amino]methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)



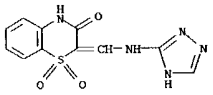
RN 312972-97-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[(4-methylphenyl)amino]methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

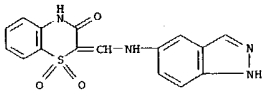
1,1-dioxide (9CI) (CA INDEX NAME)



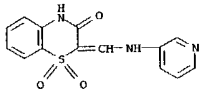
RN 312973-02-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1H-1,2,4-triazol-3-ylamino)methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 312973-03-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1H-indazol-5-ylamino)methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)

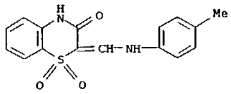


RN 312973-04-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3-pyridinylamino)methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)

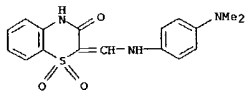


RN 312973-05-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-{(1H-indol-5-ylamino)methylene}-, 1,1-dioxide (9CI) (CA INDEX NAME)

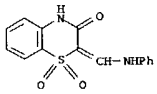
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



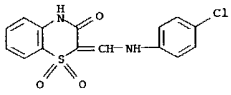
RN 312972-98-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[[4-(dimethylamino)phenyl]amino]methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 312972-99-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(phenylamino)methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)

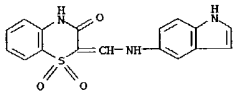


RN 312973-00-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[(4-chlorophenyl)amino]methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)



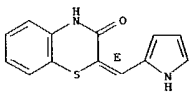
RN 312973-01-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1H-pyrazol-3-ylamino)methylene]-,

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



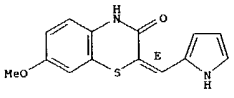
RN 312973-46-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrol-2-ylmethylene)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



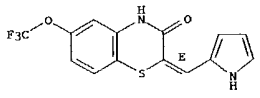
RN 312973-47-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-methoxy-2-(1H-pyrrol-2-ylmethylene)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 312973-48-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrol-2-ylmethylene)-6-(trifluoromethoxy)-, (2E)- (9CI) (CA INDEX NAME)

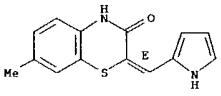
Double bond geometry as shown.



RN 312973-49-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-methyl-2-(1H-pyrrol-2-ylmethylene)-, (2E)- (9CI) (CA INDEX NAME)

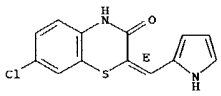
Double bond geometry as shown.

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



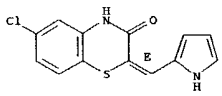
RN 312973-51-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-chloro-2-(1H-pyrrol-2-ylmethylene)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



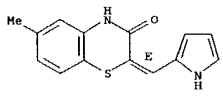
RN 312973-52-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 6-chloro-2-(1H-pyrrol-2-ylmethylene)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



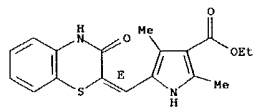
RN 312973-53-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 6-methyl-2-(1H-pyrrol-2-ylmethylene)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CN 1H-Pyrrole-3-carboxylic acid, 5-[(E)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-2,4-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)

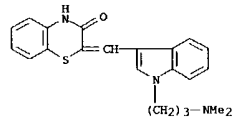
Double bond geometry as shown.



RN 312973-58-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[3-(dimethylamino)propyl]-1H-indol-3-yl]methylene]-, monomethanesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 312970-52-8
CMF C22 H23 N3 O S



CM 2

CRN 75-75-2
CMF C H4 O3 S

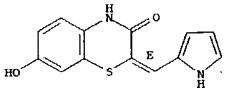
RN 312973-59-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrolo[2,3-b]pyridin-3-ylmethylene)-, monomethanesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 312971-38-3
CMF C16 H11 N3 O S

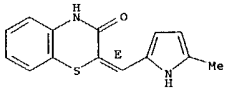
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 312973-54-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-hydroxy-2-(1H-pyrrol-2-ylmethylene)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 312973-55-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(5-methyl-1H-pyrrol-2-yl)methylene]-, (2E)- (9CI) (CA INDEX NAME)

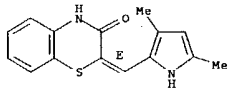
Double bond geometry as shown.



IT **312973-56-1P 312973-57-2P 312973-58-3P**
312973-59-4P 312973-60-7P 312973-61-8P
312973-62-9P 312973-63-0P 312973-64-1P
312973-65-2P 312974-25-7P 312974-26-8P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and effects of benzothiazinones and benzoxazinones as protein kinase inhibitors)

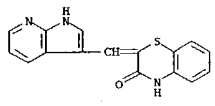
RN 312973-56-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3,5-dimethyl-1H-pyrrol-2-yl)methylene]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 312973-57-2 CAPLUS

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



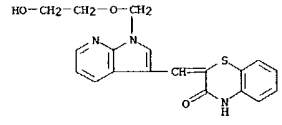
CM 2

CRN 75-75-2
CMF C H4 O3 S

RN 312973-60-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[(2-hydroxyethoxy)methyl]-1H-pyrrolo[2,3-b]pyridin-3-yl]methylene]-, monomethanesulfonate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 312971-39-4
CMF C19 H17 N3 O3 S



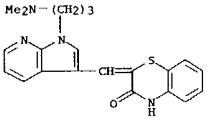
CM 2

CRN 75-75-2
CMF C H4 O3 S

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 312973-61-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[3-(dimethylamino)propyl]-1H-pyrrolo[2,3-b]pyridin-3-yl]methylene]-, monomethanesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 312971-40-7
CMF C21 H22 N4 O S



CM 2

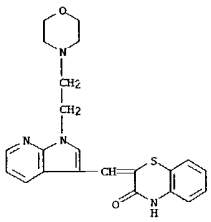
CRN 75-75-2
CMF C H4 O3 S

RN 312973-62-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[2-(4-morpholinyl)ethyl]-1H-pyrrolo[2,3-b]pyridin-3-yl]methylene]-, monomethanesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 312971-41-8
CMF C22 H22 N4 O2 S

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



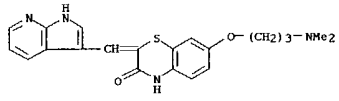
CM 2

CRN 75-75-2
CMF C H4 O3 S

RN 312973-63-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-[3-(dimethylamino)propoxy]-2-(1H-pyrrolo[2,3-b]pyridin-3-ylmethylene)-, monomethanesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 312971-42-9
CMF C21 H22 N4 O2 S

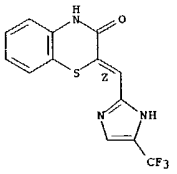


CM 2

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CRN 75-75-2
CMF C H4 O3 S

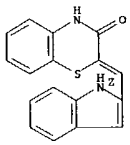
RN 312973-64-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-(trifluoromethyl)-1H-imidazol-2-yl]methylene]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



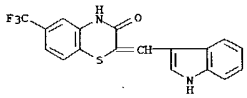
RN 312973-65-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-2-ylmethylene)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

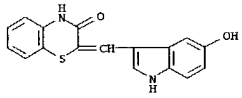


RN 312974-25-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-3-ylmethylene)-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)

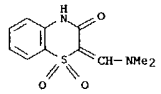
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312974-26-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(5-hydroxy-1H-indol-3-yl)methylene]- (9CI) (CA INDEX NAME)



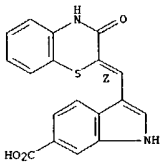
IT **70685-26-6 312973-44-7 312973-45-8**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation and effects of benzothiazinones and benzoxazinones as protein
kinase inhibitors)
RN 70685-26-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(dimethylamino)methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 312973-44-7 CAPLUS
CN 1H-Indole-6-carboxylic acid, 3-[(Z)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]- (9CI) (CA INDEX NAME)

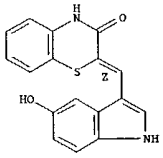
Double bond geometry as shown.

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312973-45-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(5-hydroxy-1H-indol-3-yl)methylene]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



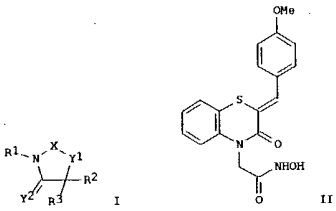
L4 ANSWER 12 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:756696 CAPLUS
DOCUMENT NUMBER: 133:321892
TITLE: Preparation of hydroxamic acid derivatives as matrix metallo-proteinase inhibitors
INVENTOR(S): Scarlato, Gerard Robert; Hadida, Ruah Sara Sabina; Nishimura, Tamiki; Nakatsuka, Masashi; Samizo, Fumio; Kamikawa, Yumiko; Houtigai, Hitoshi
PATENT ASSIGNEE(S): Sumitomo Pharmaceuticals Co., Ltd., Japan
SOURCE: PCT Int. Appl., 218 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000063197	A1	20001026	WO 2000-US10383	20000419
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2369947	AA	20001026	CA 2000-2369947	20000419
EP 1173427	A1	20020123	EP 2000-922291	20000419
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002542238	T2	20021210	JP 2000-612289	20000419
US 6713477	B1	20040330	US 2001-959192	20011109
PRIORITY APPLN. INFO.:			US 1999-129933P	P 19990419
			WO 2000-US10383	W 20000419

OTHER SOURCE(S): MARPAT 133:321892
GI

L4 ANSWER 12 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

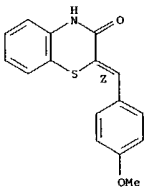


AB The title compds. [I; X = (un)substituted alkylene, ortho-heteroarylene; Y1 = O, S, SO, SO2; Y2 = O, S; one of R1 and R3 = (CHR4)nCR5R6CONHOH; the other R1 and R3 = H, (un)substituted alkyl, cycloalkyl; R2 = H, (un)substituted alkyl, alkenyl, etc.; R4-R6 = H, (un)substituted alkyl, alkenyl, etc.; or R5 may be joined with R4 or R6 to form, with the carbon atom which they attach (un)substituted cycloalkane or heterocycloalkane; n = 0-4], useful as matrix metallo-proteinase (e.g., MMP-2, MMP-3, MMP-9, and MMP-13) inhibitors, were prepared E.g., a multi-step synthesis of 1,4-benzothiazin-3(4H)-one II which showed IC50 of 1.0 μM against MMP-2, and 20% inhibition of TNF-α production at 5 μM, was given.

IT **55043-26-0**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of hydroxamic acid derivs. as matrix metallo-proteinase inhibitors)

RN 55043-26-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methoxyphenyl)methylene]-, (2Z)- (9CI) (CA INDEX NAME)

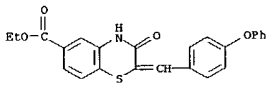
Double bond geometry as shown.



IT **302836-56-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of hydroxamic acid derivs. as matrix metallo-proteinase inhibitors)

L4 ANSWER 12 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 302836-56-2 CAPLUS
CN 2H-1,4-Benzothiazine-6-carboxylic acid, 3,4-dihydro-3-oxo-2-[(4-phenoxyphenyl)methylene]-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2000:665626 CAPLUS
DOCUMENT NUMBER: 133:253885
TITLE: Thiazine-indigo compounds, their production and use and intermediates therefor
INVENTOR(S): Borchert, Till; Kaul, Bansi Lal; Piastra, Bruno; Wolf, Valerie; Rothe, Petra; Unverdorben, Leonhard
PATENT ASSIGNEE(S): Clariant Finance (BVI) Limited, Virgin I. (Brit.)
SOURCE: Eur. Pat. Appl., 36 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1036821	A1	20000920	EP 2000-810221	20000316
EP 1036821	B1	20040128		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2000344757	A2	20001212	JP 2000-58620	20000303
US 6472527	B1	20021029	US 2000-525839	20000315
AT 258571	E	20040215	AT 2000-810221	20000316

PRIORITY APPLN. INFO.: GB 1999-6120 A 19990318
GB 1999-18805 A 19990811
OTHER SOURCE(S): MARPAT 133:253885

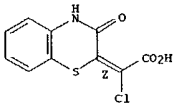
AB New heterocyclic compds. are disclosed which are used as intermediates for the preparation of trans-thiazine-indigo pigments which are in part new compds.
and can be used for the mass pigmentation of organic substrates. Also disclosed are different environmentally friendly water-based processes for the preparation of the new heterocyclic compds. and the corresponding pigments.
Thus, o-aminothiophneol was cyclocondensed with 2,3-dichloromaleic acid to give a benzothiazine derivative which was then cyclocondensed with bis(4-carboxamido-2-nitrophenyl) disulfide to provide cis-thiazine-indigo compound which was isomerized to the trans red-orange pigment.

IT **106660-05-3P 294867-02-0P**
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; production of thiazine-indigo pigments)

RN 106660-05-3 CAPLUS
CN Acetic acid, chloro(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, (2Z)- (9CI) (CA INDEX NAME)

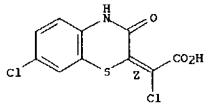
Double bond geometry as shown.

L4 ANSWER 13 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 294867-02-0 CAPLUS
CN Acetic acid, chloro(7-chloro-3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

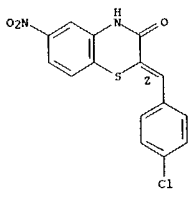
L4 ANSWER 14 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2000:616053 CAPLUS
DOCUMENT NUMBER: 134:193369
TITLE: Synthesis and structural study of substituted arylideneimidazolidines and arylidenebenzothiazines
AUTHOR(S): Brandao, S. S. F.; Guarda, V. L.; Pitta, I. R.; Chantegrel, J.; Perrissin, M.; Souza, V. M.; Galdino, S. L.; Thomasson, F.; Lima, M. C. A.; Leite, L. F. C. C.; Luu-Duc, C.
CORPORATE SOURCE: Universidade Federal de Pernambuco, Recife, 50.670-901, Brazil
SOURCE: Bollettino Chimico Farmaceutico (2000), 139(2), 54-58
CODEN: BCFAAI; ISSN: 0006-6648
PUBLISHER: Societa Editoriale Farmaceutica
DOCUMENT TYPE: Journal
LANGUAGE: French
OTHER SOURCE(S): CASREACT 134:193369

AB Synthesis and physicochem. properties of six 5-arylidene-3-benzyl-1-methyl-2-thioxoimidazolidin-4-ones and three 2-arylidene-6-nitro-2H-1,4-benzothiazin-3(4H)-ones have been described. These new compds. were synthesized by the Knoevenagel condensation reaction from aromatic aldehydes.
The N-alkylation reaction of arylidenebenzothiazines by Me iodide gives the N-methylarylidenebenzothiazines.

IT **328001-00-9P 328001-01-0P 328001-02-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and structural study of arylideneimidazolidines and arylidenebenzothiazines)

RN 328001-00-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-chlorophenyl)methylene]-6-nitro-, (2Z)- (9CI) (CA INDEX NAME)

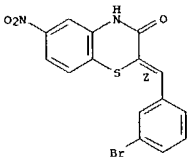
Double bond geometry as shown.



RN 328001-01-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3-bromophenyl)methylene]-6-nitro-, (2Z)- (9CI) (CA INDEX NAME)

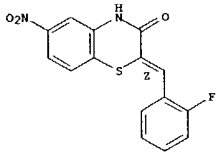
Double bond geometry as shown.

L4 ANSWER 14 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 328001-02-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-fluorophenyl)methylene]-6-nitro-, (2Z)- (9CI) (CA INDEX NAME)

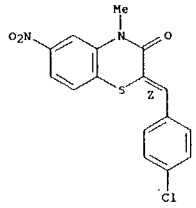
Double bond geometry as shown.



IT **328001-03-2P 328001-04-3P 328001-05-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and structural study of arylideneimidazolidines and arylidenebenzothiazines)

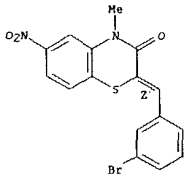
RN 328001-03-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-chlorophenyl)methylene]-4-methyl-6-nitro-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



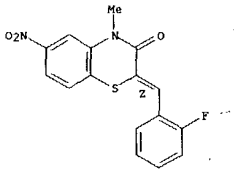
L4 ANSWER 14 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 328001-04-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3-bromophenyl)methylene]-4-methyl-6-nitro-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 328001-05-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-fluorophenyl)methylene]-4-methyl-6-nitro-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 15 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1999:487539 CAPLUS
DOCUMENT NUMBER: 131:129999
TITLE: Preparation of oxazolidines substituted with bicycles as antimicrobial agents
INVENTOR(S): Bartel, Stephan; Guarnieri, Walter; Haebich, Dieter; Raddatz, Siegfried; Riedl, Bernd; Rosentreter, Ulrich; Ruppelt, Martin; Stolle, Andreas; Wild, Hanno; Endermann, Rainer; Kroll, Hein-Peter
PATENT ASSIGNEE(S): Bayer A.-G., Germany
SOURCE: Ger. Offen., 88 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19802239	A1	19990729	DE 1998-19802239	19980122
WO 9937641	A1	19990729	WO 1999-EP96	19990109
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9926161	A1	19990809	AU 1999-26161	19990109
EP 1049692	A1	20001108	EP 1999-906112	19990109
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002501065	T2	20020115	JP 2000-528563	19990109
PRIORITY APPLN. INFO.:			DE 1998-19802239 A	19980122
			WO 1999-EP96 W	19990109
OTHER SOURCE(S):	MARPAT 131:129999			

GI

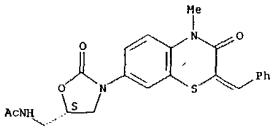
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. [I; R = Me, Et, COOMe, (CH3)2CH, R1 = H; R-R1 = (CH2)3; R3 = OH, OSO2Me, N3, NH2, NHCONH2, NHAc, NHCOCH2Br, NHCOOMe, NHCOEt, NHCOCF3, NHCOOBu-t, cyclopropylcarbonylamino, 2-furylcarbonylamino, NHP(OMe)2:O, etc.; X = C:O, CH2, S, S:O, SO2; Y = CH2, CHCH3, NMe, C:O, C6H5CH:C, C6H5CH2C:, 4-ClC6H4CH:C, 4-MeOC6H4CH:C, etc.; Z = O, CH2], enantiomers, and salts are prepared Thus, the title compound II was prepared from 7-nitro-2H-1,4-benzoxazin-3-one, C6H5CH2OCONHCl, and (R)-(-)-glycidyl butyrate via reduction cyclization and was tested against Staphylococcus aureus, Mycobacterium smegmatis, and Streptococcus pneumoniae.

IT **233775-06-9P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological

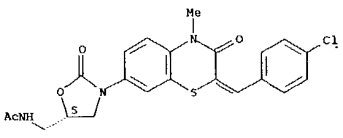
L4 ANSWER 15 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of oxazolidines substituted with bicycles as antimicrobial agents)
RN 233775-06-9 CAPLUS
CN Acetamide, N-[[(5S)-3-[3,4-dihydro-4-methyl-3-oxo-2-(phenylmethylene)-2H-1,4-benzothiazin-7-yl]-2-oxo-5-oxazolidinyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



IT **233775-07-0P 233775-08-1P 233775-09-2P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of oxazolidines substituted with bicycles as antimicrobial agents)
RN 233775-07-0 CAPLUS
CN Acetamide, N-[[(5S)-3-[2-[(4-chlorophenyl)methylene]-3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-7-yl]-2-oxo-5-oxazolidinyl]methyl]- (9CI) (CA INDEX NAME)

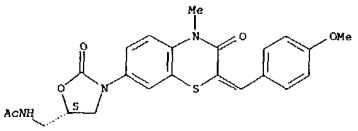
Absolute stereochemistry.
Double bond geometry unknown.



RN 233775-08-1 CAPLUS
CN Acetamide, N-[[(5S)-3-[3,4-dihydro-2-[(4-methoxyphenyl)methylene]-4-methyl-3-oxo-2H-1,4-benzothiazin-7-yl]-2-oxo-5-oxazolidinyl]methyl]- (9CI) (CA INDEX NAME)

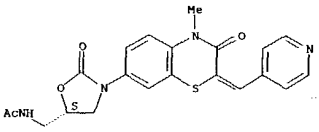
Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 15 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

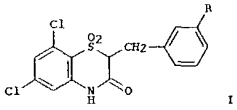


RN 233775-09-2 CAPLUS
CN Acetamide, N-[[(5S)-3-[3,4-dihydro-4-methyl-3-oxo-2-(4-pyridinylmethylene)-2H-1,4-benzothiazin-7-yl]-2-oxo-5-oxazolidinyl]methyl]- (9CI) (CA INDEX NAME)

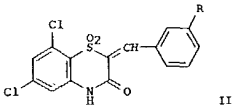
Absolute stereochemistry.
Double bond geometry unknown.



L4 ANSWER 16 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1999:284060 CAPLUS
DOCUMENT NUMBER: 131:44782
TITLE: Synthesis of 2-substituted 6,8-dichloro-3,4-dihydro-3-oxo-2H-1,4-benzothiazine 1,1-dioxides and 1-oxides as glycine-NMDA receptor antagonists
AUTHOR(S): Varano, Flavia; Catarzi, Daniela; Colotta, Vittoria; Filacchioni, Guido; Cecchi, Lucia; Galli, Alessandro; Costagli, Chiara
CORPORATE SOURCE: Dipartimento di Scienze Farmaceutiche, Universita di Firenze, Florence, 50121, Italy
SOURCE: Farmaco (1998), 53(12), 752-757
CODEN: FRMCE8; ISSN: 0014-827X
PUBLISHER: Elsevier Science S.A.
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

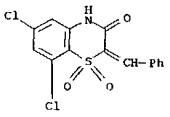


II

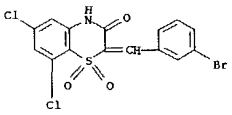
AB Title compds. I (R = H, Br), II (R = H, Br), and the corresponding monoxides, bioisosteres of RPR 104632, in which the 3-carboxylic group was replaced by a carbonyl group, were synthesized. Comparative in vitro pharmacol. studies on this series of RPR 104632 analogs were performed using receptor binding assays. None of these compds. showed detectable binding affinity for the glycine-NMDA receptor.
IT **227012-79-5P 227012-80-8P 227012-81-9P**
227012-82-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and lack of affinity for glycine-NMDA receptor)
RN 227012-79-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 6,8-dichloro-2-(phenylmethylene)-, 1,1-dioxide (9CI) (CA INDEX NAME)

L4 ANSWER 16 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

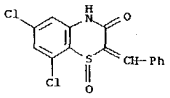
L4 ANSWER 16 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



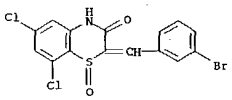
RN 227012-80-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3-bromophenyl)methylene]-6,8-dichloro-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 227012-81-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 6,8-dichloro-2-(phenylmethylene)-, 1-oxide (9CI) (CA INDEX NAME)



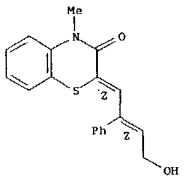
RN 227012-82-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3-bromophenyl)methylene]-6,8-dichloro-, 1-oxide (9CI) (CA INDEX NAME)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS

L4 ANSWER 17 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1998:248133 CAPLUS
DOCUMENT NUMBER: 129:4618
TITLE: Pummerer reaction of 2-vinylcyclopropyl sulfoxides: generation and reactions of butadienylthionium ion intermediates
AUTHOR(S): Iwama, Tetsuo; Matsumoto, Harutoshi; Shimizu, Hiroshi; Kataoka, Tadashi; Muraoka, Osamu; Tanabe, Genzoh
CORPORATE SOURCE: Gifu Pharmaceutical University, Gifu, 502-8585, Japan
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1998), (9), 1569-1576
CODEN: JCPRB4; ISSN: 0300-922X
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 129:4618
AB Generation of butadienylthionium ions in the Pummerer reactions of 2-vinylcyclopropyl sulfoxides was studied. Although the Pummerer reaction of 2-vinylcyclopropyl sulfoxides are complicated, benzothiazinone derivs. smoothly react with trifluoroacetic anhydride to give 1,3-dienes in good yields. The reactions proceed via butadienylthionium ions by proton abstraction from the 2'-Me group or the cyclopropane ring. Reactions of disubstituted benzothiazinones provided cyclic dienes while treatment of mono- or unsubstituted derivs. gave acyclic conjugated dienes. Vinylcyclopropyl sulfoxides were prepared by MCPBA oxidation of the corresponding 2-vinylcyclopropyl sulfides, resp., which were obtained by cyclopropanation of α-chloro sulfides with 1,3-dienes via a 5,6-dihydro-2H-thiopyranium intermediate.
IT **207507-89-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(Pummerer reaction of vinylcyclopropyl sulfoxides and generation and reaction of butadienylthionium intermediates)
RN 207507-89-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2Z)-4-hydroxy-2-phenyl-2-butenylidene]-4-methyl-, (2Z)- (9CI) (CA INDEX NAME)

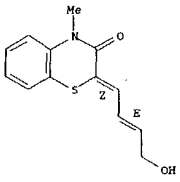
Double bond geometry as shown.



IT **207506-88-5P 207506-89-6P 207506-90-9P**
207506-91-0P 207506-92-1P 207506-93-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 207506-88-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2E)-4-hydroxy-2-butenylidene]-4-methyl-

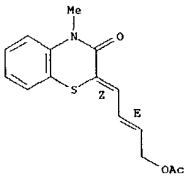
L4 ANSWER 17 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
. (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 207506-89-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2E)-4-(acetyloxy)-2-butenylidene]-4-methyl-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

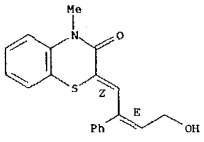


RN 207506-90-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2E)-4-hydroxy-2-methyl-2-butenylidene]-4-methyl-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

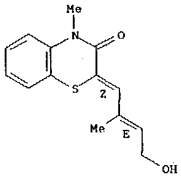
L4 ANSWER 17 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 207506-93-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2E)-4-hydroxy-2-phenyl-2-butenylidene]-4-methyl-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



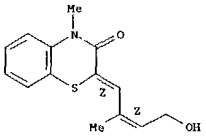
REFERENCE COUNT: 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 17 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



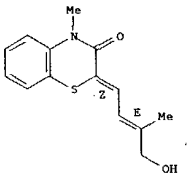
RN 207506-91-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2Z)-4-hydroxy-2-methyl-2-butenylidene]-4-methyl-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

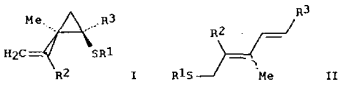


RN 207506-92-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2E)-4-hydroxy-3-methyl-2-butenylidene]-4-methyl-, (2Z)- (9CI) (CA INDEX NAME)

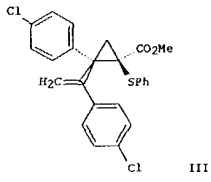
Double bond geometry as shown.



L4 ANSWER 18 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1997:261364 CAPLUS
DOCUMENT NUMBER: 126:343367
TITLE: Acid-promoted isomerization of 1-acceptor-1-sulfenyl-substituted 2-vinylcyclopropanes with C1-C2 bond fission and novel 1,5-sulfenyl rearrangement
AUTHOR(S): Iwama, Tetsuo; Matsumoto, Harutoshi; Kataoka, Tadashi
CORPORATE SOURCE: Gifu Pharmaceutical University, Gifu, 502, Japan
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1997), (6), 835-843
CODEN: JCPRB4; ISSN: 0300-922X
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 126:343367
GI



I II



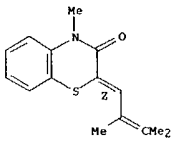
III

AB The 1-acceptor-1-sulfenyl-substituted vinylcyclopropane derivs., i.e., (ethenyl)(mercapto)cyclopropane derivs., I [R1 = (un)substituted Ph, Me; R2 = H, Me; R3 = CO2Me, cyano] underwent C1-C2 bond fission and 1,5-sulfenyl rearrangement to give 6-sulfenyl-α,β; γ,δ-unsatd. carboxylic esters and nitriles II (same R1-R3), by treatment with acid. The reactions proceed smoothly by use of a sulfonic acid such as p-TsOH·H2O, CF3SO3H etc. in a non-polar solvent. The result obtained from reactions of III implied that the C1-C2 bond cleavage and deprotonation from the C2-Me group of substrates 1 occur via a concerted process. A cross-over experiment showed that the 1,5-sulfenyl shift proceeded intermolecularly. Addition of a catalytic amount of m-MeC6H4SH improves the yield of the rearranged product II.

IT **190005-72-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 190005-72-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2,3-dimethyl-2-butenylidene)-4-methyl-,

L4 ANSWER 18 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
(Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



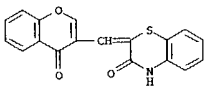
REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 19 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1995:885820 CAPLUS
DOCUMENT NUMBER: 124:55745
TITLE: Study of microwave irradiation effect on condensation of 6-R-3-formylchromones with active methylene compounds
AUTHOR(S): Gasparova, Renata; Lacova, Margita
CORPORATE SOURCE: Dep. Org. Chem., Comenius Univ., Bratislava, 842 15, Slovakia
SOURCE: Collection of Czechoslovak Chemical Communications (1995), 60(7), 1178-85
CODEN: CCCCAK; ISSN: 0010-0765
PUBLISHER: Institute of Organic Chemistry and Biochemistry, Academy of Sciences of the Czech Republic
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 124:55745

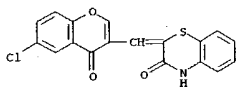
AB Condensation of 6-R-3-formylchromones with 3,3-dimethyl-1,3-cyclohexanedione, 1,3-indandione, 1,2'-biindenylidene-3,1',3'-trione (bindone), 2-oxo-1,4-benzothiazine, and 3-oxo-2,3-dihydro-1-thia-3a,8-diazacyclopent[a]indene by the "classical" method, as well as condensation in a microwave oven, has been studied. Some subsequent reactions of these products are described.

IT **172170-67-1P 172170-70-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(study of microwave irradiation effect on condensation of formylchromones with active methylene compds.)

RN 172170-67-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-oxo-4H-1-benzopyran-3-yl)methylene]- (9CI) (CA INDEX NAME)



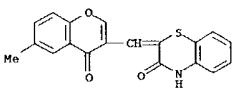
RN 172170-70-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(6-chloro-4-oxo-4H-1-benzopyran-3-yl)methylene]- (9CI) (CA INDEX NAME)



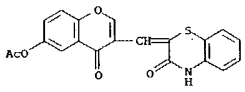
IT **172170-68-2P 172170-69-3P 172170-72-8P 172170-73-9P**

L4 ANSWER 19 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RL: SPN (Synthetic preparation); PREP (Preparation)
(study of microwave irradn. effect on condensation of formylchromones with active methylene compds.)

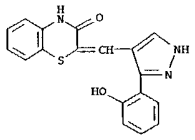
RN 172170-68-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(6-methyl-4-oxo-4H-1-benzopyran-3-yl)methylene]- (9CI) (CA INDEX NAME)



RN 172170-69-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6-(acetyloxy)-4-oxo-4H-1-benzopyran-3-yl]methylene]- (9CI) (CA INDEX NAME)

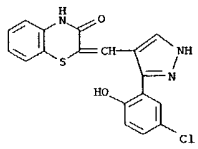


RN 172170-72-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-(2-hydroxyphenyl)-1H-pyrazol-4-yl]methylene]- (9CI) (CA INDEX NAME)



RN 172170-73-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-(5-chloro-2-hydroxyphenyl)-1H-pyrazol-4-yl]methylene]- (9CI) (CA INDEX NAME)

L4 ANSWER 19 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L4 ANSWER 20 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1995:784965 CAPLUS
DOCUMENT NUMBER: 123:198818
TITLE: Preparation and formulation of benzothiazine derivatives as antioxidants
INVENTOR(S): Kawashima, Yoichi; Ota, Atsutoshi; Mibu, Hiroyuki; Matsubayashi, Kenichiro
PATENT ASSIGNEE(S): Santen Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 45 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9513269	A1	19950518	WO 1994-JP1907	19941110
W: CA, CN, FI, KR, NO, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
JP 07138241	A2	19950530	JP 1993-283684	19931112
JP 2840807	B2	19981224		
JP 07138242	A2	19950530	JP 1993-283685	19931112
JP 2840808	B2	19981224		
PRIORITY APPLN. INFO.:			JP 1993-283684	19931112
			JP 1993-283685	19931112
OTHER SOURCE(S):	MARPAT 123:198818			

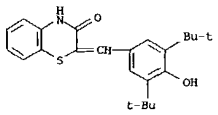
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

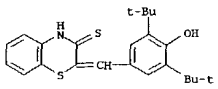
AB The title compds. I [R1 represents optionally protected hydroxy; R2 represents lower alkyl; R3 represents hydrogen, lower alkyl, optionally protected hydroxy or lower alkoxy, wherein the lower alkyl group may be substituted by optionally protected hydroxy, amino or lower alkylamino; R4 represents carboxyl which may be in the form of an ester or amide; A represents alkylene; and B represents CH2, etc.] are prepared I stabilize proteins, inhibit lipid peroxide formation, and are useful as potential agents for the treatment of cataract. The title compds. II and III (preparation given) in vitro at 10-6 M gave 99% inhibition of lipid peroxida.

IT **156776-32-8**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of benzothiazine derivs. as antioxidants)
RN 156776-32-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]- (9CI) (CA INDEX NAME)

L4 ANSWER 20 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



IT **167549-24-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of benzothiazine derivs. as antioxidants)
RN 167549-24-8 CAPLUS
CN 2H-1,4-Benzothiazine-3(4H)-thione, 2-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]- (9CI) (CA INDEX NAME)



L4 ANSWER 21 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1995:761702 CAPLUS
DOCUMENT NUMBER: 123:169638
TITLE: Preparation of 3-oxo-1,4-benzothiazines as protein stabilizers and lipid peroxide formation inhibitors
INVENTOR(S): Kawashima, Yoichi; Ota, Atsuigaoka; Morikawa, Yuko; Mibu, Hiroyuki
PATENT ASSIGNEE(S): Santen Pharmaceutical Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 21 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 657444	A1	19950614	EP 1994-119182	19941205
EP 657444	B1	19990331		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
US 5547952	A	19960820	US 1994-347043	19941130
JP 07215953	A2	19950815	JP 1994-300907	19941205
JP 2964380	B2	19991018		
AT 178323	E	19990415	AT 1994-119182	19941205
CA 2137626	AA	19950610	CA 1994-2137626	19941208
FI 9405762	A	19950610	FI 1994-5762	19941208
NO 9404762	A	19950612	NO 1994-4762	19941208
CN 1109882	A	19951011	CN 1994-112918	19941208
PRIORITY APPLN. INFO.:			JP 1993-309131 A	19931209
OTHER SOURCE(S):	MARPAT 123:169638			

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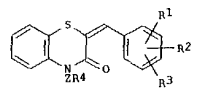
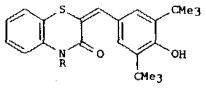


I

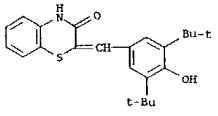


II

AB Tile compds. [I: R1 = (protected) hydroxy; R2 = alkyl; R3 = H, OH, alkyl, alkoxy, etc.; R4 = tetrazolyl, alkoxysulfonyl, dialkoxysulfinyl, etc.; Z = alkylene] were prepared Thus, title compound II (R = H) was N-alkylated with
ClCH2OMe and the product treated successively with Me3SiI and (EtO)3P to give, after saponification, II [R = CH2P(O)(OH)2] which gave 98.8 and 100% inhibition of bovine serum denaturation and lipid peroxide formation in vitro at 10-4 and 10-5M, resp.

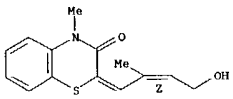
IT **156776-32-8**
RL: RCT (Reactant); RACT (Reactant or reagent)

L4 ANSWER 21 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
(prepn. of 3-oxo-1,4-benzothiazines as protein stabilizers and lipid peroxide formation inhibitors)
RN 156776-32-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]- (9CI) (CA INDEX NAME)



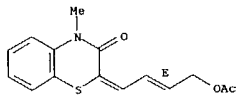
L4 ANSWER 22 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1995:517831 CAPLUS
DOCUMENT NUMBER: 123:83330
TITLE: Generation and reactions of butadienylthionium ions from 2-vinylcyclopropyl sulfoxides under Pummerer conditions
AUTHOR(S): Kataoka, Tadashi; Matsumoto, Harutoshi; Iwama, Tetsuo; Ito, Taizo; Shimizu, Hiroshi
CORPORATE SOURCE: Gifu Pharmaceutical University, Gifu, 502, Japan
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1995), (7), 737-9
CODEN: JCPRB4; ISSN: 0300-922X
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 123:83330
AB Treatment of 2-vinylcyclopropyl sulfoxides lacking an α-hydrogen with acid anhydrides produced butadienylthionium ion intermediates to give cyclic or acyclic conjugated dienes.
IT **165333-87-9P 165333-88-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(Pummerer reaction of vinylcyclopropyl sulfoxides)
RN 165333-87-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(4-hydroxy-2-methyl-2-butenylidene)-4-methyl-, (?,Z)- (9CI) (CA INDEX NAME)

Double bond geometry as described by E or Z.



RN 165333-88-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[4-(acetyloxy)-2-butenylidene]-4-methyl-, (?,E)- (9CI) (CA INDEX NAME)

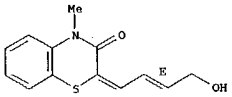
Double bond geometry as described by E or Z.



IT **165333-84-6P 165333-85-7P 165333-86-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

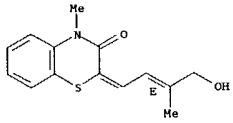
L4 ANSWER 22 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 165333-84-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(4-hydroxy-2-butenylidene)-4-methyl-, (?,E)- (9CI) (CA INDEX NAME)

Double bond geometry as described by E or Z.



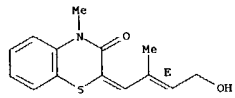
RN 165333-85-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(4-hydroxy-3-methyl-2-butenylidene)-4-methyl-, (?,E)- (9CI) (CA INDEX NAME)

Double bond geometry as described by E or Z.



RN 165333-86-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(4-hydroxy-2-methyl-2-butenylidene)-4-methyl-, (?,E)- (9CI) (CA INDEX NAME)

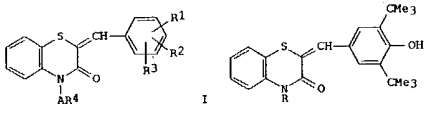
Double bond geometry as described by E or Z.



L4 ANSWER 23 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1994:508814 CAPLUS
DOCUMENT NUMBER: 121:108814
TITLE: Preparation of 3-oxo-1,4-benzothiazine derivatives having protein stabilization activity and inhibiting formation of lipid peroxide
INVENTOR(S): Kawashima, Yoichi; Ota, Atsutoshi; Mibu, Hiroyuki
PATENT ASSIGNEE(S): Santen Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 43 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

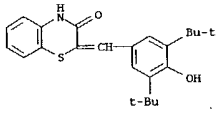
PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 9405647	A1	19940317	WO 1993-JP1190		19930825
W: CA, JP, KR, US					
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE					
EP 627425	A1	19941207	EP 1993-919568		19930825
EP 627425	B1	20001102			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE					
JP 2829442	B2	19981125	JP 1993-507042		19930825
AT 197297	E	20001115	AT 1993-919568		19930825
US 5496817	A	19960305	US 1994-211940		19940422
PRIORITY APPLN. INFO.:			JP 1992-231669	A	19920831
			WO 1993-JP1190	W	19930825

OTHER SOURCE(S): MARPAT 121:108814
GI

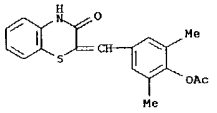


AB Compds. represented by general formula [I; R1 = (un)protected hydroxy; R2 = lower alkyl; R3 = H, lower alkyl, (un)protected hydroxy, lower alkoxy, provided that the lower alkyl may be substituted by (un)protected hydroxy, amino or lower alkylamino; R4 = carboxyl which may be in the form of ester or carboxamide; A = alkylene], which are useful for the treatment of cataract, are prepared Thus, BuLi in hexane was added dropwise with stirring to a solution of (hydroxybenzylidene)dihydrobenzothiazine derivative
(II; R = H) in THF under NaCl-ice cooling followed by adding dropwise a solution of BrCH2CO2Et in THF and the resulting mixture was stirred at room temperature overnight to give 58.1% II (R = CH2CO2Et) which was saponified with
LiOH.H2O in MeOH and THF to give, after acidification with 6N HCl, 65.2% II (R = CH2CO2H)(III). III and II [R = (CH2)3CO2H] in vitro inhibited 81.2 and 99.1%, resp., formation of lipid peroxides when rat liver microsome was incubated with ADP, Fe2+, and ascorbic acid in 0.04 M Tris buffer containing 0.09 M KCl.
IT **156776-32-8**

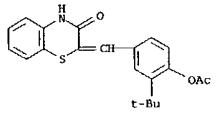
L4 ANSWER 23 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RL: RCT (Reactant); RACT (Reactant or reagent)
(alkylation of, by Et bromoacetate)
RN 156776-32-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]- (9CI) (CA INDEX NAME)



IT **156776-25-9P 156776-26-0P 156776-27-1P**
156776-28-2P 156776-29-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as intermediate for benzylideneoxobenzothiazine derivative with
protein stabilization and lipid peroxide formation-inhibiting activity)
RN 156776-25-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-(acetyloxy)-3,5-dimethylphenyl]methylene]- (9CI) (CA INDEX NAME)

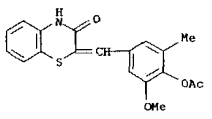


RN 156776-26-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-(acetyloxy)-3-(1,1-dimethylethyl)phenyl]methylene]- (9CI) (CA INDEX NAME)

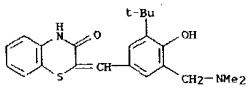


RN 156776-27-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-(acetyloxy)-3-methoxy-5-methylphenyl]methylene]- (9CI) (CA INDEX NAME)

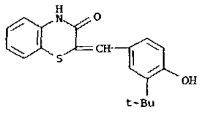
L4 ANSWER 23 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 156776-28-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-[(dimethylamino)methyl]-5-(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]- (9CI) (CA INDEX NAME)

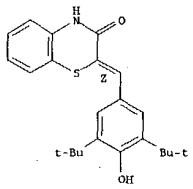


RN 156776-29-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]- (9CI) (CA INDEX NAME)



L4 ANSWER 24 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
lipoperoxides from ascorbic acid, ADP, Fe2+, and rats' liver microsome in 0.04 M tris buffer.
IT **126981-72-4P**, (Z)-2-(3,5-Di-tert-butyl-4-hydroxybenzylidene)-3,4-dihydro-3-oxo-2H-1,4-benzothiazine
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as lipopetoxide formation inhibitor)
RN 126981-72-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]-, (Z)- (9CI) (CA INDEX NAME)

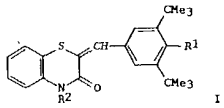
Double bond geometry as shown.



L4 ANSWER 24 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1994:483354 CAPLUS
DOCUMENT NUMBER: 121:83354
TITLE: Preparation of 1,4-benzothiazine derivatives as lipoperoxide formation inhibitors
INVENTOR(S): Kawashima, Yoichi; Oota, Atsutoshi; Mibu, Hiroyuki
PATENT ASSIGNEE(S): Santen Pharma Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06073033	A2	19940315	JP 1992-231668	19920831
JP 2840800	B2	19981224		
PRIORITY APPLN. INFO.:			JP 1992-231668	19920831

OTHER SOURCE(S): MARPAT 121:83354
GI



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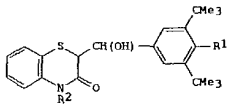
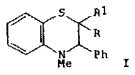


II

AB The title derivs. I [R1 = (protected) OH; R2 = acyl, AR3; R3 = OH, lower alkoxy, amino, lower alkylamino, tetrahydropyranyloxy; A = lower alkylene] or their salts, and their intermediates II or their salts are prepared A solution of (Me2CH)2NH in THF was treated dropwise with a solution of BuLi in n-hexane at 0-10°, stirred for 20 min, treated dropwise with a solution of 3,4-dihydro-4-[3-(N,N-dimethylamino)propyl]-3-oxo-2H-1,4-benzothiazine in THF under ice cooling, stirred for 30 min, then treated with a solution of 3,5-di-tert-butyl-4-hydroxybenzaldehyde in THF at room temperature overnight to give 38.8% erythro- and 28.9% threo-II [R1 = OH, R2 = (CH2)3NMe2] (III). A mixture of erythro-III and Et3N in CH2Cl2 was treated with MeSO2Cl under ice cooling to give 29.5% (Z)-I [R1 = OH, R2 = (CH2)3NMe2] (IV). IV at 10-6 M 98.8% inhibited the formation of

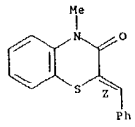
L4 ANSWER 25 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1994:483237 CAPLUS
DOCUMENT NUMBER: 121:83237
TITLE: Stereoselective synthesis of 2-acyl-3,4-dihydro-1,4-benzothiazines
AUTHOR(S): Florio, Saverio; Epifani, Erbana; Ronzini, Ludovico; Fava, Giovanna Gasparri; Pelosi, Giorgio; Lucchini, Vittorio
CORPORATE SOURCE: Cent. Studio Strutturistica Diffrattometrica, Univ. Parma, Parma, Italy
SOURCE: Tetrahedron (1994), 50(17), 5037-48
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 121:83237
GI



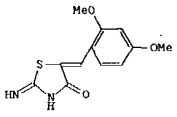
I

AB 2-Benzylidene-4-methyl-3-oxo-2H-1,4-benzothiazine undergoes 1,2-addition with MeMgI and allylic magnesium halides to give 2-acyl-4-methyl-3-phenyl-3,4-dihydro-2H-1,4-benzothiazines I (R = Ac, CH2:CHCH2, CH2:CMeCH2, CH2:CHCHMe, R1 = H). Lithiation of I (R = Ac, R1 = H) and subsequent reaction with MeI and PhCH2Br leads to I (R = Ac, COEt, R1 = Me; R = COCHMe2, R1 = Me; R = Ac, R1 = CH2Ph). In contrast, the reaction of lithiated I (R = Ac, R1 = H) with benzaldehyde and 2,6-dichlorobenzaldehyde furnished compds. I (R = COCH:CHPh, COCH:CHC6H3Cl2-2,6, R1 = H). The crystal structure of I (R = Ac, R1 = H) was determined
IT **55043-21-5**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with Grignard reagents)
RN 55043-21-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



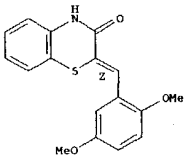
L4 ANSWER 26 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1994:483138 CAPLUS
DOCUMENT NUMBER: 121:83138
TITLE: Synthesis of lactams with potential cardiotonic activity
AUTHOR(S): Andreani, A.; Rambaldi, M.; Locatelli, A.; Leoni, A.; Bossa, R.; Chiericozzi, M.; Galatulas, I.; Salvatore, G.
CORPORATE SOURCE: Dip. Sci. Farm., Univ. Bologna, Bologna, 40126, Italy
SOURCE: European Journal of Medicinal Chemistry (1993), 28(10), 825-9
CODEN: EJMCA5; ISSN: 0223-5234
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB *Twelve title compds., e.g., I, were prepared and tested in spontaneously* beating guinea-pig atria. I was the most potent inotropic agent.
IT **154617-53-5P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and cardiotonic activity of)
RN 154617-53-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2,5-dimethoxyphenyl)methylene]-, (Z)- (9CI) (CA INDEX NAME)

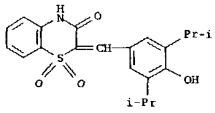
Double bond geometry as shown.



L4 ANSWER 27 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1993:463033 CAPLUS
DOCUMENT NUMBER: 119:63033
TITLE: Potent antitumor agents with low toxicity
INVENTOR(S): Sakuta, Masayoshi; Yoneda, Toshuki; Nishimura, Michuki; Shiraishi, Tadayoshi
PATENT ASSIGNEE(S): Kanegafuchi Chemical Ind, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 26 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05058894	A2	19930309	JP 1991-215448	19910827
PRIORITY APPLN. INFO.:			JP 1991-215448	19910827
OTHER SOURCE(S):	MARPAT 119:63033			

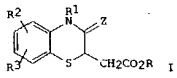
AB The antitumor agents are tyrosine kinase-activating 3,5-diisopropylbenzylidene heterocyclic compds., 4-thiazolinone derivs., 3,5-diisopropyl-4-hydroxystyrene derivs., 3,5-di-tert-butyl-4-hydroxystyrene derivs., α-cyanoacrylic acid amide derivs., α-benzylidene-γ-butyrolactone or γ-butyrolactam derivs., styrene derivs., 4-alkoxystyrene derivs., 3-phenylthiomethylstyrene derivs., tribenzylamine derivs., α-cyanocinnamic acid amide derivs. and salts thereof. Antitumor pharmacol. data are included.
IT **108402-28-4**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(neoplasm inhibitor)
RN 108402-28-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-hydroxy-3,5-bis(1-methylethyl)phenyl]methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)



L4 ANSWER 28 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1992:551006 CAPLUS
DOCUMENT NUMBER: 117:151006
TITLE: 1,4-benzothiazine-2-acetic acid derivatives, processes for production thereof and their use
INVENTOR(S): Aotsuka, Tomoji; Hosono, Hiroshi; Kurihara, Toshio; Nakamura, Yoshiyuki; Matsui, Tetsuo; Kobayashi, Fujio
PATENT ASSIGNEE(S): Sapporo Breweries Ltd., Japan
SOURCE: Eur. Pat. Appl., 71 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 492667	A1	19920701	EP 1991-122330	19911227
EP 492667	B1	19960417		
R: BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE				
JP 05092961	A2	19930416	JP 1991-354323	19911220
JP 2729430	B2	19980318		
CA 2058398	AA	19920628	CA 1991-2058398	19911223
CA 2058398	C	20000215		
AU 9190045	A1	19920709	AU 1991-90045	19911224
AU 634109	B2	19930211		
US 5252571	A	19931012	US 1991-813182	19911224
ES 2085950	T3	19960616	ES 1991-122330	19911227
PRIORITY APPLN. INFO.:			JP 1990-415316 A	19901227
			JP 1991-219346 A	19910806
OTHER SOURCE(S):	MARPAT 117:151006			

GI

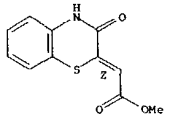


I

AB Benzothiazineacetic acid derivs. I (R = H, alkyl; R1 = optionally-substituted benzyl or 5-benzothiazolylmethyl group, R2, R3 = H, halo, alkyl, alkoxy, alkylthio, CF3, CF3O; Z = O, S) and the related benzothiazolinylideneacetic acid derivs. and pharmaceutically-acceptable salts were prepared Thus, alkylation of Et 2-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-yl)acetate with 2-(bromomethyl)-5-fluorobenzothiazole in DMF afforded I (R = Et, R1 = 5-fluorobenzothiazolylmethyl, R2 = R3 = H, Z = O). The claimed compds. are aldose reductase inhibitors and are useful for the treatment of complications associated with diabetes.
IT **37893-72-4**
RL: RCT (Reactant); RACT (Reactant or reagent)
(benzylation of)
RN 37893-72-4 CAPLUS
CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

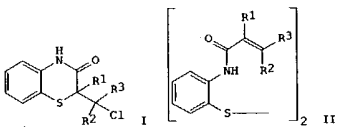
L4 ANSWER 28 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L4 ANSWER 29 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1990:423934 CAPLUS
DOCUMENT NUMBER: 113:23934
TITLE: Preparation of 1,4-benzothiazin-3(4H)-one derivatives, useful as drugs, pesticides, and their intermediates
INVENTOR(S): Muehlstaedt, Manfred; Franke, Heike; Roemisch, Ines
PATENT ASSIGNEE(S): Karl-Marx-Universitaet Leipzig, Ger. Dem. Rep.
SOURCE: Ger. (East), 4 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 274220	A1	19891213	DD 1988-318270	19880725
DD 274220	B1	19930121		
PRIORITY APPLN. INFO.:			DD 1988-318270	19880725

OTHER SOURCE(S): CASREACT 113:23934
GI

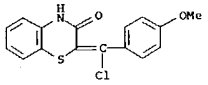

I II

AB Three title derivs. I (R1 = Me, R2 = R3 = H; R1 = R2 = H, R3 = Ph, p-MeOC6H4) with the cited uses (no data) were prepared by reaction of bis[(α,β-unsatd. carbonylamino)phenyl] disulfides II with Cl(g) in a nonpolar solvent such as CH2Cl2 at -40°, followed by warming to room temperature and 4 h addnl. stirring. Thus, 0.01 mol II (R1 = R2 = H, R3 = Ph) in 100 mL CH2Cl2 was treated with a stream of Cl(g) for 25 min as above and worked up by crystallization (2 crops) to give 90.3% I (R1 = R2 = H, R3 = Ph).

IT **122686-63-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, by cyclization of bis[(cinnamoylamino)phenyl] disulfide derivative)

RN 122686-63-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[chloro(4-methoxyphenyl)methylene]- (9CI) (CA INDEX NAME)

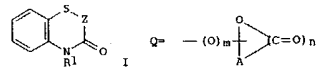
L4 ANSWER 29 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

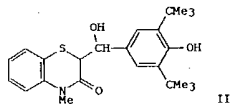


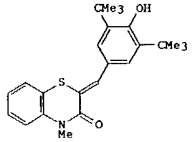
L4 ANSWER 30 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1990:216950 CAPLUS
DOCUMENT NUMBER: 112:216950
TITLE: Preparation of 3-oxo-1,4-benzothiazine derivatives for removal of active oxygen species and for inhibition of lipid peroxide formation
INVENTOR(S): Morita, Takakazu; Iso, Tadashi; Mita, Shiro; Kawashima, Yoichi
PATENT ASSIGNEE(S): Santen Pharmaceutical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01287077	A2	19891117	JP 1988-117683	19880514
JP 07030058	B4	19950405		
PRIORITY APPLN. INFO.:			JP 1988-117683	19880514

OTHER SOURCE(S): MARPAT 112:216950
GI


I


II


III

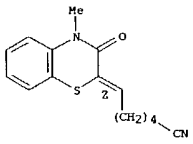
AB The title compds. [I; Z = CR2CR3R4R5, C:CR6R7, CR8CR9:CR10R11; R1,R2,R8,R9 = H, alkyl; R3 = (un)substituted HO, halo, cyano, CO2H, alkoxycarbonyl, alkylamino, Q; m, n = 0, 1; A = (un)substituted alkylene or alkenylene; R4-R7,R10,R11 = H, alkoxycarbonyl, CO2H, Q, (un)substituted alkyl, alkenyl, or Ph; or R4R5, R6R7, R10R11 forming pyrrolidine or piperidine ring; or CR3R4R5 = COR5], useful for the treatment of active oxygen

L4 ANSWER 30 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
species (e.g. O2-·, H2O2, OH·, 1O2) - related inflammation and cardiovascular disease, e.g. arteriosclerosis, are prepd. Thus, treatment of 3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazine with (iso-Pr)2NLi in THF at -70° followed by 3,5-di-tert-butyl-4-hydroxybenzaldehyde and warming the mixt. to room temp. and stirring 2 h at the room temp. gave threo- and erythro-benzothiazine deriv. (II). II and a (Z)-benzothiazine deriv. (III) inhibited the formation of lipid peroxides from ascorbic acid, ADP, Fe24, and rats' liver microsome in 0.04 M tris buffer with IC50 of 0.32 and 0.22 μM, resp.

IT **126962-19-4**
RL: RCT (Reactant); RACT (Reactant or reagent)
(hydrolysis of)

RN 126962-19-4 CAPLUS
CN Hexanenitrile, 6-(3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, (Z)- (9CI) (CA INDEX NAME)

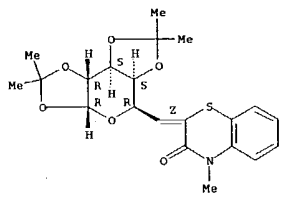
Double bond geometry as shown.



IT **126961-79-3P 126961-80-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 126961-79-3 CAPLUS
CN α-D-Galactopyranose, 6-deoxy-6-(3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)-1,2:3,4-bis-O-(1-methylethylidene)-, (6Z)- (9CI) (CA INDEX NAME)

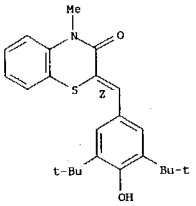
Absolute stereochemistry.
Double bond geometry as shown.



RN 126961-80-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3,5-bis(1,1-dimethylethyl)-4-

L4 ANSWER 30 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
hydroxyphenyl]methylene]-4-methyl-, (Z)- (9CI) (CA INDEX NAME)

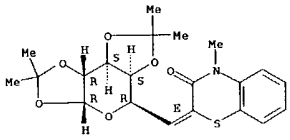
Double bond geometry as shown.



IT **126961-97-5P 126961-98-6P 126961-99-7P**
126962-00-3P 126962-03-6P 126962-04-7P
126962-06-9P 126962-07-0P 126962-08-1P
126962-09-2P 126962-10-5P 126962-11-6P
126962-12-7P 126981-72-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, for removal of active oxygen species and inhibition of lipid peroxide formation)

RN 126961-97-5 CAPLUS
CN α-D-Galactopyranose, 6-deoxy-6-(3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)-1,2:3,4-bis-O-(1-methylethylidene)-, (6E)- (9CI) (CA INDEX NAME)

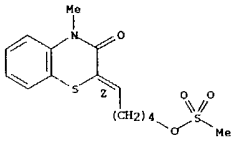
Absolute stereochemistry.
Double bond geometry as shown.



RN 126961-98-6 CAPLUS
CN Hexanoic acid, 6-(3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, ethyl ester, (Z)- (9CI) (CA INDEX NAME)

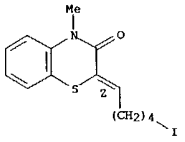
Double bond geometry as shown.

L4 ANSWER 30 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 126962-04-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(5-iodopentylidene)-4-methyl-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

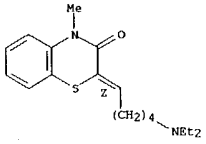


RN 126962-06-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[5-(diethylamino)pentylidene]-4-methyl-, (Z)-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 126962-05-8
CMF C18 H26 N2 O S

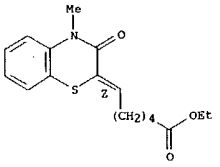
Double bond geometry as shown.



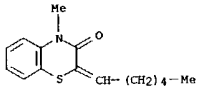
CM 2

CRN 144-62-7
CMF C2 H2 O4

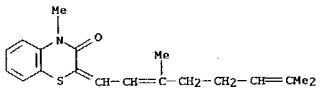
L4 ANSWER 30 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 126961-99-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-hexylidene-4-methyl- (9CI) (CA INDEX NAME)



RN 126962-00-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(3,7-dimethyl-2,6-octadienylidene)-4-methyl- (9CI) (CA INDEX NAME)



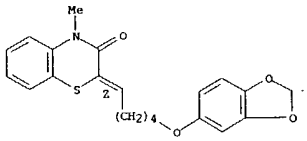
RN 126962-03-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-[5-[(methylsulfonyl)oxy]pentylidene]-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

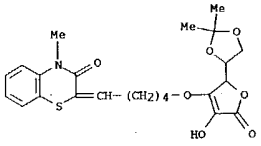
L4 ANSWER 30 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 126962-07-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[5-(1,3-benzodioxol-5-yloxy)pentylidene]-4-methyl-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



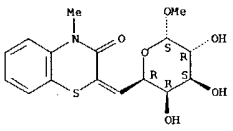
RN 126962-08-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[5-[[2-(2,2-dimethyl-1,3-dioxolan-4-yl)-2,5-dihydro-4-hydroxy-5-oxo-3-furanyl]oxy]pentylidene]-4-methyl- (9CI) (CA INDEX NAME)



RN 126962-09-2 CAPLUS
CN α-D-Galactopyranoside, methyl 6-deoxy-6-(3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)- (9CI) (CA INDEX NAME)

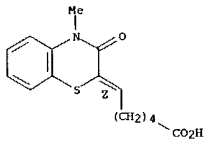
Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 30 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

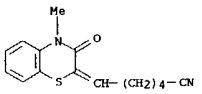


RN 126962-10-5 CAPLUS
CN Hexanoic acid, 6-(3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, (Z)- (9CI) (CA INDEX NAME)

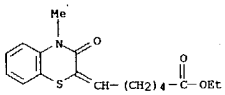
Double bond geometry as shown.



RN 126962-11-6 CAPLUS
CN Hexanenitrile, 6-(3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)- (9CI) (CA INDEX NAME)



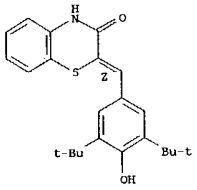
RN 126962-12-7 CAPLUS
CN Hexanoic acid, 6-(3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, ethyl ester (9CI) (CA INDEX NAME)



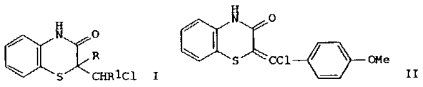
L4 ANSWER 30 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 126981-72-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]-, (Z)- (9CI) (CA INDEX NAME)

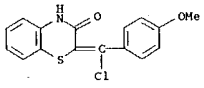
Double bond geometry as shown.



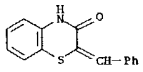
L4 ANSWER 31 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1989:534067 CAPLUS
DOCUMENT NUMBER: 111:134067
TITLE: A further synthetic pathway to 1,4-benzothiazin-3(4H)-ones; chlorinolysis of disulfides derived from α,β-unsaturated carboxylic acid anilides
AUTHOR(S): Muehlstaedt, Manfred; Franke, Heike
CORPORATE SOURCE: Sekt. Chem., Karl-Marx-Univ., Leipzig, DDRk-7010, Ger. Dem. Rep.
SOURCE: Zeitschrift fuer Chemie (1989), 29(4), 135-6
CODEN: ZECEAL; ISSN: 0044-2402
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 111:134067
GI



AB Treatment of 2-R1CH:CRCONHC6H4S2C6H4NHCOCR:CHR1-2 (R = Me, R1 = H; R = H, R1 = Ph, 4-MeOC6H4) with Cl gave the thaizinones I (R = Me, R1 = H; R = H, R1 = Ph) and II in 76-90% yield.
IT **122686-63-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, by chlorination of acrylaminophenyl disulfide)
RN 122686-63-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[chloro(4-methoxyphenyl)methylene]- (9CI) (CA INDEX NAME)



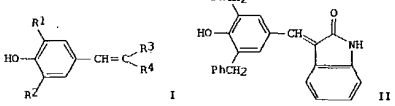
L4 ANSWER 32 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1989:95053 CAPLUS
DOCUMENT NUMBER: 110:95053
TITLE: A novel synthetic route to phenyl-substituted pyridines. Synthesis of [1]benzopyrano[4,3-b]pyridines, [1]benzothiopyrano[4,3-b]pyridines and pyrido[3,2-b][1,4]benzothiazines(1-azapheothiazines) [Erratum to document cited in CA109(17):149389k]
AUTHOR(S): Tyndall, D. V.; Al Nakib, T.; Meegan, M. J.
CORPORATE SOURCE: Dep. Pharm. Chem., Trinity Coll. Dublin, Dublin, Ire.
SOURCE: Tetrahedron Letters (1988), 29(42), 5330
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A text error has been corrected The error was not reflected in the abstract or
the index entries.
IT **24545-07-1**
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclocondensation reaction of, with malononitrile (Erratum))
RN 24545-07-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)



L4 ANSWER 33 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1989:57296 CAPLUS
DOCUMENT NUMBER: 110:57296
TITLE: Preparation of hydroxystyrene derivatives as pharmaceuticals
INVENTOR(S): Shiraishi, Tadayoshi; Kameyama, Keiji; Domoto, Takeshi; Imai, Naohiro; Shimada, Yoshio; Aciki, Yutaka; Hosoe, Kazunori; Kawatsu, Masaji; Katsumi, Ikuo; et al.
PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
SOURCE: PCT Int. Appl., 60 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 8807035	A1	19880922	WO 1988-JP254	19880310
W: JP, US				
RW: BE, CH, DE, FR, GB, IT, NL, SE				
EP 304493	A1	19890301	EP 1988-902540	19880310
EP 304493	B1	19920902		
R: BE, CH, DE, FR, GB, IT, LI, NL, SE				
JP 2539504	B2	19961002	JP 1988-502469	19880310
CA 1315783	A1	19930406	CA 1988-568136	19880530
US 4971996	A	19901120	US 1988-283992	19881110
US 5089516	A	19920218	US 1990-584683	19900919
US 5057538	A	19911015	US 1990-587147	19900924
US 5202341	A	19930413	US 1991-735581	19910725
PRIORITY APPLN. INFO.:			JP 1987-55965	19870311
			JP 1987-55966	19870311
			JP 1987-57256	19870312
			WO 1988-JP254	19880310
			US 1988-283992	19881110
			US 1990-584683	19900919

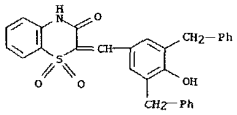
OTHER SOURCE(S): MARPAT 110:57296
GI


I

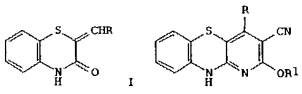
II

AB The title compds. [I; R1 = OH, alkoxy, PhCH2O; R2 = PhCH2, etc.; or R1, R2 = Ph, PhCH2, PhCH2CH2, C1-3 alkyl; R3 = cyano; R4 = carbamoyl (R1, R2 ≠ alkyl); R3R4 = 5- or 6-membered cyclic amide], useful as pharmaceuticals, are prepared 3,5-Dibenzyl-4-hydroxybenzaldehyde and

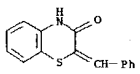
L4 ANSWER 33 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
oxindole were dissolved in C6H6 and refluxed 5 h in the presence of piperidine and AcOH to give 29% (indolinylylidenemethyl)phenol II. II showed 78% inhibition (at 10 μM) of guinea pig 5-lipoxygenase and 74% inhibition (at 1 μM) of tyrosine kinase incubated with human cancer-cell stock A-431 as a proliferative acceptor. II had an acute toxicity LD50 of >500 mg/kg.
IT **110562-99-5P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of, as pharmaceutical)
RN 110562-99-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-hydroxy-3,5-bis(phenylmethyl)phenyl]methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)



L4 ANSWER 34 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1989:38945 CAPLUS
DOCUMENT NUMBER: 110:38945
TITLE: A new synthesis of pyrido[3,2-b][1,4]benzothiazines
AUTHOR(S): McCarthy, Eileen T.; Tyndall, D. Vivian; Meegan, Mary J.
CORPORATE SOURCE: Dep. Pharm. Chem., Trinity Coll. Dublin, Dublin, Ire.
SOURCE: Journal of Chemical Research, Synopses (1988), (5), 145
CODEN: JRPSDC; ISSN: 0308-2342
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 110:38945
GI

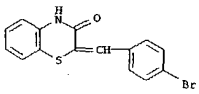

I II

AB *Cyclization of benzylidenebenzothiazinones I (e.g., R = C6H4Cl-p, C6H4OMe-p, 1-naphthyl, C6H4Ph-p) with NCCH2CN in MeOH containing NaOH gave the* title compds. II (R1 = Me). In EtOH containing NaOH, I and NCCH2CN gave II (R1 = Et). A mechanism is proposed.
IT **24545-07-1P 54874-84-9P 54874-85-0P 95476-30-5P 95476-37-2P 101884-21-3P 110265-38-6P 110265-39-7P 110265-40-0P 110265-41-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of, with malononitrile, pyridobenzothiazine from)
RN 24545-07-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)

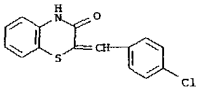


RN 54874-84-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-bromophenyl)methylene]- (9CI) (CA INDEX NAME)

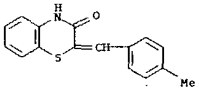
L4 ANSWER 34 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



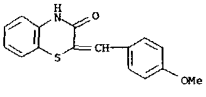
RN *54874-85-0 CAPLUS*
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-chlorophenyl)methylene]- (9CI) (CA INDEX NAME)



RN 95476-30-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methylphenyl)methylene]- (9CI) (CA INDEX NAME)

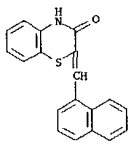


RN *95476-37-2 CAPLUS*
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methoxyphenyl)methylene]- (9CI) (CA INDEX NAME)

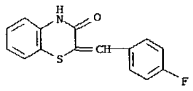


RN 101884-21-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1-naphthalenylmethylene)- (9CI) (CA INDEX NAME)

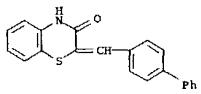
L4 ANSWER 34 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



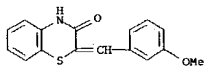
RN 118265-38-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-fluorophenyl)methylene]- (9CI) (CA INDEX NAME)



RN 118265-39-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-([1,1'-biphenyl]-4-ylmethylene)- (9CI) (CA INDEX NAME)

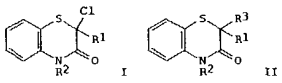


RN 118265-40-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3-methoxyphenyl)methylene]- (9CI) (CA INDEX NAME)

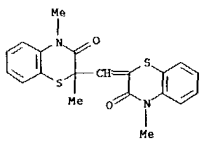


RN 118265-41-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-ethoxyphenyl)methylene]- (9CI) (CA INDEX NAME)

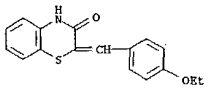
L4 ANSWER 35 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1989:8144 CAPLUS
DOCUMENT NUMBER: 110:8144
TITLE: A novel, convenient synthesis of 2-aryl-3-oxo-3,4-dihydro-2H-1,4-benzothiazines
AUTHOR(S): Fujita, Masanobu; Ota, Atsutoshi; Ito, Susumu; Yamamoto, Koji; Kawashima, Yoichi
CORPORATE SOURCE: Res. Lab., Santen Pharm. Co., Ltd., Osaka, Japan
SOURCE: Synthesis (1988), (8), 599-604
CODEN: SYNTBF; ISSN: 0039-7881
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 110:8144
GI



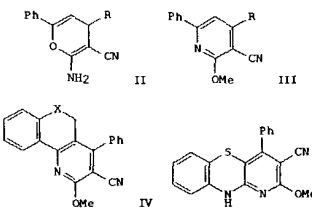
AB Chlorodihydrobenzothiazinones I [R1 = H, Me, CHMe2; R2 = H, Me, (CH2)3NMe2, CH2CO2H] were treated with alkoxybenzenes, phenols, C6H6, and PhCl and AlCl3 to give arylated products II [R3 = anisyl, (MeO)2C6H3, Ph, ClC6H4, HOC6H4, HO(MeO)C6H3, HO(O2N)C6H3].
IT **117838-98-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 117838-98-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-2,4-dimethyl- (9CI) (CA INDEX NAME)



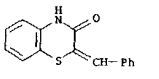
L4 ANSWER 34 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L4 ANSWER 36 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1988:549389 CAPLUS
DOCUMENT NUMBER: 109:149389
TITLE: A novel synthetic route to phenyl-substituted pyridines. Synthesis of [1]benzopyrano[4,3-b]pyridines, [1]benzothiopyrano[4,3-b]pyridines and pyrido[3,2-b][1,4]benzothiazines(1-azapheothiazines)
AUTHOR(S): Tyndall, D. V.; Nakib, T. Al; Meegan, M. J.
CORPORATE SOURCE: Dep. Pharm. Chem., Trinity Coll. Dublin, Dublin, Ire.
SOURCE: Tetrahedron Letters (1988), 29(22), 2703-6
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 109:149389
GI



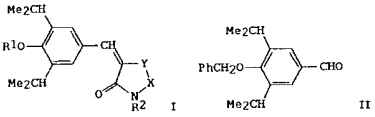
AB Reaction of PhCOCH:CHR (I; R = Ph, CH = CHPh, 1-naphthyl) with CH2(CN)2 in the presence of piperidine gave pyrancarbonitriles II, whereas the reaction of I with CH2(CN)2 in the presence of NaOH in MeOH gave pyridinecarbonitriles III. This reaction was applied to a general synthesis of title compds. IV (X = O, S) and V from α,β-unsatd. ketones and CH2(CN)2.
IT **24545-07-1**
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclocondensation reaction of, with malononitrile)
RN 24545-07-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)



L4 ANSWER 37 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1987:213918 CAPLUS
DOCUMENT NUMBER: 106:213918
TITLE: Diisopropylbenzylidene-substituted heterocycles
INVENTOR(S): Imai, Naohiro; Shiraishi, Tadayoshi; Katsumi, Ikuo; Yamashita, Katsuji; Ariki, Yutaka; Yamashita, Toshiaki
PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62029570	A2	19870207	JP 1985-167999	19850729
JP 05074587	B4	19931018		
PRIORITY APPLN. INFO.:			JP 1985-167999	19850729

GI



I

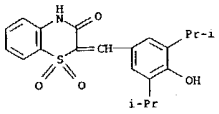
II

AB The title compds. I [R1 = H, PhCH2; R2 = H, R3CO (R3 = H, C1-3 alkyl), Ph; X = CO, CS, C:NH, CHR4 (R4 = H, C1-3 alkyl), NPh; Y = CH2, CH2SO2, CO, C(O)NH, NR5 (R5 = H, C1-3 alkyl), NHC(O), O, S; XY = CR6:N (R6 = H, C1-3 alkyl, morpholino, Ph), N:CR6, o-phenylene, o-C6H4SO2], useful as antiallergics and tyrosine kinase inhibitors, are prepared A mixture of 3,5-(Me2CH)2C6H3CHO, hydantoin, ethanolamine, EtOH, and H2O was refluxed to give I (R1 = R2 = H, X = CO, Y = NH) which at 100 μM showed 100% control of free slow-reacting substances of anaphylaxis or their biosynthesis in guinea pigs.

IT **108402-28-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as antiallergic agent and tyrosine kinase inhibitor)

RN 108402-28-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-hydroxy-3,5-bis(1-methylethyl)phenyl]methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)

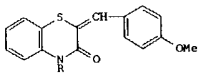
L4 ANSWER 37 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L4 ANSWER 38 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1987:138459 CAPLUS
DOCUMENT NUMBER: 106:138459
TITLE: Benzothiazinones
INVENTOR(S): Otsuka, Yozo; Naito, Kenji; Morita, Tadashi
PATENT ASSIGNEE(S): Tobishi Pharmaceutical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61229874	A2	19861014	JP 1985-69106	19850403
JP 05033705	B4	19930520		
PRIORITY APPLN. INFO.:			JP 1985-69106	19850403
OTHER SOURCE(S):		CASREACT 106:138459		

GI



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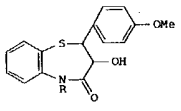
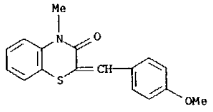


II

AB Title compds. I [R = H, lower alkyl, 2-(dimethylamino)ethyl], useful as intermediates for the vasodilator diltiazem, were prepared by treating cis-1-benzothiazepinones II with organic sulfonyl chlorides. Thus, treating 6.04 g 1-cis-II (R = H) with 5.7 g p-MeC6H4SO2Cl in pyridine gave 3.75 g I (R = H).

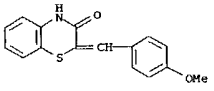
IT **87833-81-6P 95476-37-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as intermediate for vasodilator diltiazem)

RN 87833-81-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methoxyphenyl)methylene]-4-methyl- (9CI) (CA INDEX NAME)



RN 95476-37-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methoxyphenyl)methylene]- (9CI) (CA INDEX NAME)

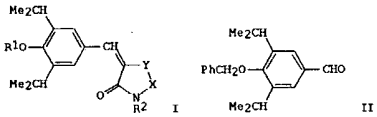
L4 ANSWER 38 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



TITLE: Diisopropylbenzylidene-substituted heterocycles
INVENTOR(S): Imai, Naohiro; Shiraishi, Tadayoshi; Katsumi, Ikuo; Yamashita, Katsuji; Ariki, Yutaka; Yamashita, Toshiaki
PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62029570	A2	19870207	JP 1985-167999	19850729
JP 05074587	B4	19931018		
PRIORITY APPLN. INFO.:			JP 1985-167999	19850729

GI



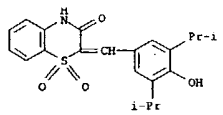
I

II

AB The title compds. I [R1 = H, PhCH2; R2 = H, R3CO (R3 = H, C1-3 alkyl), Ph; X = CO, CS, C:NH, CHR4 (R4 = H, C1-3 alkyl), NPh; Y = CH2, CH2SO2, CO, C(O)NH, NR5 (R5 = H, C1-3 alkyl), NHC(O), O, S; XY = CR6:N (R6 = H, C1-3 alkyl, morpholino, Ph), N:CR6, o-phenylene, o-C6H4SO2], useful as antiallergics and tyrosine kinase inhibitors, are prepared. A mixture of 3,5-(Me2CH)2C6H3CHO, hydantoin, ethanolamine, EtOH, and H2O was refluxed to give I (R1 = R2 = H, X = CO, Y = NH) which at 100 μM showed 100% control of free slow-reacting substances of anaphylaxis or their biosynthesis in guinea pigs.

IT **108402-28-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as antiallergic agent and tyrosine kinase inhibitor)

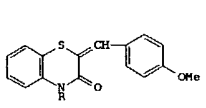
RN 108402-28-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-hydroxy-3,5-bis(1-methylethyl)phenyl]methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)



L4 ANSWER 38 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1987:138459 CAPLUS
DOCUMENT NUMBER: 106:138459
TITLE: Benzothiazinones
INVENTOR(S): Otsuka, Yozo; Naito, Kenji; Morita, Tadashi
PATENT ASSIGNEE(S): Tobishi Pharmaceutical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61229874	A2	19861014	JP 1985-69106	19850403
JP 05033705	B4	19930520		
PRIORITY APPLN. INFO.:			JP 1985-69106	19850403
OTHER SOURCE(S):	CASREACT 106:138459			

GI



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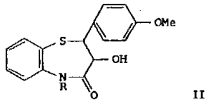
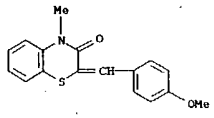


II

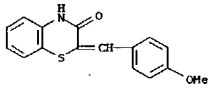
AB Title compds. I [R = H, lower alkyl, 2-(dimethylamino)ethyl], useful as intermediates for the vasodilator diltiazem, were prepared by treating cis-1-benzothiazepinones II with organic sulfonyl chlorides. Thus, treating 6.04 g 1-cis-II (R = H) with 5.7 g p-MeC6H4SO2Cl in pyridine gave 3.75 g I (R = H).

IT **87833-81-6P 95476-37-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as intermediate for vasodilator diltiazem)

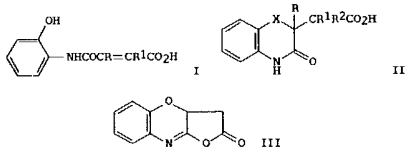
RN 87833-81-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methoxyphenyl)methylene]-4-methyl- (9CI) (CA INDEX NAME)



RN 95476-37-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methoxyphenyl)methylene]- (9CI) (CA INDEX NAME)



L4 ANSWER 39 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1987:102191 CAPLUS
DOCUMENT NUMBER: 106:102191
TITLE: The synthesis of (3-oxo-3,4-dihydro-2H-1,4-benzothiazin-2-yl)acetic acid and (3-oxo-3,4-dihydro-2H-1,4-benzoxazin-2-yl)acetic acid derivatives
AUTHOR(S): Teitei, Tsutomu
CORPORATE SOURCE: Div. Plant Ind., CSIRO, Canberra, 2601, Australia
SOURCE: Australian Journal of Chemistry (1986), 39(3), 503-10
CODEN: AJCHAS; ISSN: 0004-9425
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 106:102191
GI

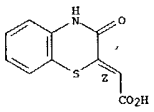


AB Reaction of o-aminophenol with various maleic anhydrides gave first 2-hydroxymaleanilic acids I (R, R1 = e.g. H, Cl), which were then converted into the benzoxazinones II (X = O; R1 = H; RR2 = bond) under mild basic conditions; similarly the reaction of o-aminothiophenol with the maleic anhydrides gave the benzothiazinones II in one step. The facile cycloaddn. and esterification of 2-hydroxymaleanlic acids to form the benzoxazines observed in this work is discussed in terms of the formation of the isomaleimide type intermediate III. None of the prepared compds. showed significant activity on NADP-malic enzyme in the C4 photosynthetic pathway.

IT **106660-05-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and esterification of)
RN 106660-05-3 CAPLUS
CN Acetic acid, chloro(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, (2Z)- (9CI) (CA INDEX NAME)

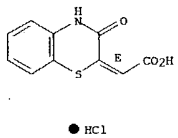
Double bond geometry as shown.

L4 ANSWER 39 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



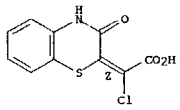
IT **106660-01-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, isomerization and methylation of)
RN 106660-01-9 CAPLUS
CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, hydrochloride, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



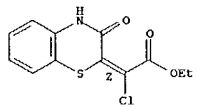
● HCl

L4 ANSWER 39 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



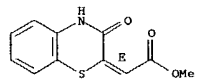
IT **106660-06-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and ethylation of)
RN 106660-06-4 CAPLUS
CN Acetic acid, chloro(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, ethyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT **37893-32-6P 106660-02-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 37893-32-6 CAPLUS
CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

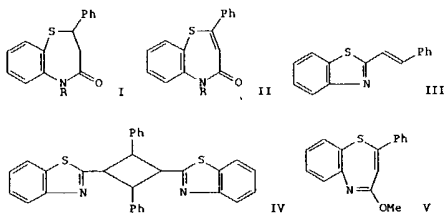
Double bond geometry as shown.



RN 106660-02-0 CAPLUS
CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L4 ANSWER 40 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1986:571588 CAPLUS
DOCUMENT NUMBER: 105:171588
TITLE: Rearrangements and complex eliminations with 1,5-benzothiazepin-4-ones
AUTHOR(S): Kaupp, Gerd; Gruendken, E.; Matthies, D.
CORPORATE SOURCE: Fachbereich Chem. - Org. Chem. I, Univ. Oldenburg, Oldenburg, D-2900, Fed. Rep. Ger.
SOURCE: Chemische Berichte (1986), 119(10), 3109-20
CODEN: CHBEAM; ISSN: 0009-2940
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 105:171588
GI

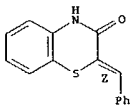


AB New or rarely documented rearrangements and complex eliminations occur in the partially proton catalyzed pyrolysis of the benzothiazepinones I (R = H, Me, Ac) and II (R = H, Me, Ac). The reactions are classified and mechanistically discussed. The products and byproducts are spectrally characterized and their configurations are assigned based on their photolysis. III photodimerizes is solution and in the crystalline state to give IV. V is remarkably insensitive to hydrolysis.

IT **55043-20-4P 55043-21-5P 104505-72-8P 104505-73-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 55043-20-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)-, (Z)- (9CI) (CA INDEX NAME)

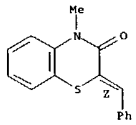
Double bond geometry as shown.

L4 ANSWER 40 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



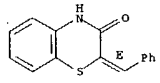
RN 55043-21-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 104505-72-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)-, (E)- (9CI) (CA INDEX NAME)

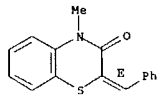
Double bond geometry as shown.



RN 104505-73-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L4 ANSWER 40 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

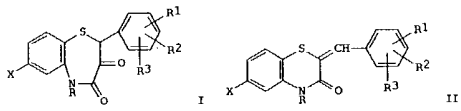


L4 ANSWER 41 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1985:578283 CAPLUS
DOCUMENT NUMBER: 103:178283
TITLE: 1,5-Benzothiazepine derivatives
PATENT ASSIGNEE(S): Hamari Yakuhin Kogyo Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60072876	A2	19850424	JP 1983-181086	19830928
PRIORITY APPLN. INFO.:			JP 1983-181086	19830928

GI

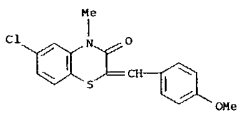


I II

AB Title compds. I [R = alkyl, (alkylamino)alkyl, morpholinoalkyl; R1-R3 = H, halo, OH, alkyl, alkoxy; X = halo] or their salts, useful as analgesics and antipyretics, were prepared by treating II with Me3SiX (X = halo), H2O2, and H2O. Thus, 59.6 g 4,2-Cl(MeNH)C6H3SH, prepared by N-methylation of 5-chloro-2-benzothiazolinone and subsequent hydrolysis, was treated with 34.0 g ClCH2CO2H to give 68.7 g 4-methyl-6-chloro-2H-1,4-benzothiazin-3(4H)-one, which (8.0 g) was refluxed with 5.1 g p-anisaldehyde and NaOMe gave 4.2 g II (R = Me; R1 = 4-OMe; R2 = R3 = H; X = Cl), which (1 g) was mixed with Me3SiCl and then treated with aqueous H2O2 to give 650 mg I. The title compds. were 0.2-3 times as effective as pentazocine.

IT **95476-11-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and ring expansion of, benzothiazepinediones from)

RN 95476-11-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 6-chloro-2-[(4-methoxyphenyl)methylene]-4-methyl- (9CI) (CA INDEX NAME)

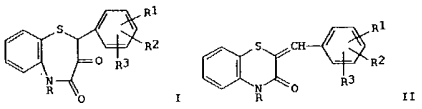


L4 ANSWER 41 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 42 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1985:542032 CAPLUS
DOCUMENT NUMBER: 103:142032
TITLE: 1,5-Benzothiazepine derivatives
PATENT ASSIGNEE(S): Hamari Yakuhin Kogyo Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60072875	A2	19850424	JP 1983-181085	19830928
PRIORITY APPLN. INFO.:			JP 1983-181085	19830928

GI

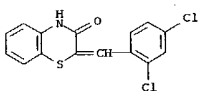


I II

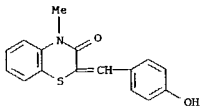
AB Title compds. I [R = alkyl, (alkylamino)alkyl, morpholinoalkyl; R1-R3 = H, halo, OH, alkyl, alkoxy] or their salts, useful as analgesic antipyretics, were prepared by treating II with Me3SiX (X = halo), H2O2, and H2O. Thus, treating 20 g 2H-1,4-benzothiazin-3(4H)-one with 33.4 g p-PhCH2OC6H4CHO and NaOMe gave 21.5 g II (R-R2 = H; R3 = OCH2Ph-4), which (4g) was treated with 3.1 g N-(2-chloroethyl)morpholine to give 1.3 g II (R = 2-morpholinoethyl, R1 = R2 = H, R3 = 4-OH), which (1 g) was mixed with Me3SiCl and treated with aqueous H2O2 to give the corresponding 0.4 g I.HCl. The analgesic activity of I was comparable to that of pentazocine.

IT **54874-55-4P 95476-30-5P 95476-31-6P**
98448-63-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and alkylation of)

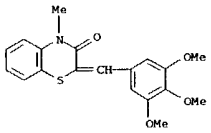
RN 54874-55-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2,4-dichlorophenyl)methylene]- (9CI) (CA INDEX NAME)



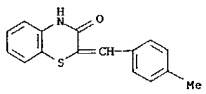
L4 ANSWER 42 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



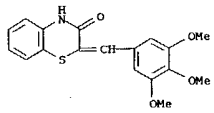
RN 98448-66-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-[(3,4,5-trimethoxyphenyl)methylene]- (9CI) (CA INDEX NAME)



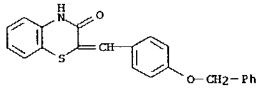
L4 ANSWER 42 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 95476-30-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methylphenyl)methylene]- (9CI) (CA INDEX NAME)



RN 95476-31-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3,4,5-trimethoxyphenyl)methylene]- (9CI) (CA INDEX NAME)



RN 98448-63-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-(phenylmethoxy)phenyl]methylene]- (9CI) (CA INDEX NAME)



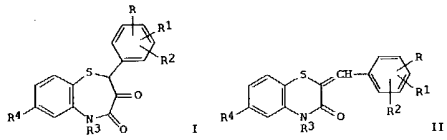
IT **98448-65-8P 98448-66-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and ring expansion of, benzothiazepinediones from)

RN 98448-65-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-hydroxyphenyl)methylene]-4-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 43 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1985:132086 CAPLUS
DOCUMENT NUMBER: 102:132086
TITLE: 1,5-Benzothiazepine derivatives
INVENTOR(S): Maki, Yoshifumi; Sako, Magoichi; Mitsumori, Naomichi; Maeda, Sadayuki; Takaya, Masahiro
PATENT ASSIGNEE(S): Hamari Chemicals, Ltd., Japan
SOURCE: U.S., 7 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4490292	A	19841225	US 1983-540000	19831007
EP 137083	A1	19850417	EP 1983-306147	19831011
EP 137083	B1	19870624		
R: CH, DE, FR, GB, LI				
CA 1225989	A1	19870825	CA 1983-438685	19831011
PRIORITY APPLN. INFO.:			US 1983-540000	19831007
OTHER SOURCE(S):	CASREACT 102:132086			

GI



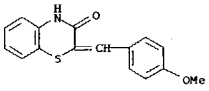
I II

AB 1,5-Benzothiazepine-3,4(5H)-diones I (R-R2 = H, halogen, alkyl, alkoxy, OH; R3 = CHCH:CH2, alkyl, alkoxyalkyl, hydroxyalkyl, haloalkyl, alkylaminoalkyl, morpholinoalkyl, R4 = H, halogen) were prepared by ring expansion of 2H-1,4-benzothiazin-3(4H)-ones II with trimethylhalosilane, H2O2, and water. Thus, 2H-1,4-benzothiazin-3(4H)-one was condensed with 2,4-Cl2C6H3CHO to give II (R = 2-Cl, R1 = 4-Cl, R2-R4 = H) which was alkylated with Me2NCH2CH2Cl to give II-HCl (R = 2-Cl, R1 = 4-Cl, R2 = R4 = H, R3 = Me2NCH2CH2). The latter compound (1 g) in 10 mL CHCl3 at <0° was treated with 2 mL Me3SiCl and 0.29 g 30% H2O2, stirred for 30 min, 1 mL water added, and the whole stirred 1 h at room temperature to give 1 g I (R = 2-Cl, R1 = 4-Cl, R2 = R4 = H, R3 = Me2NCH2CH2). I (R = R2 = R4 = H, R1 = 4-MeO, R3 = Me2NCH2CH2) at 60 mg/kg i.p. in mice gave 100% antagonism of the writhing syndrome induced by i.p. injection of 10 mL/kg 0.7% HOAc-saline solution and, at 60 mg/kg i.p., decreased rectal temperature 1.1° in rats with yeast-induced pyresis.

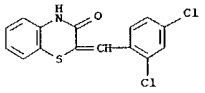
IT **95476-37-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(alkylation of, with (chloroethyl)morpholine)

RN 95476-37-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methoxyphenyl)methylene]- (9CI) (CA

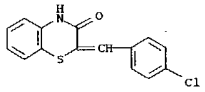
L4 ANSWER 43 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
INDEX NAME)



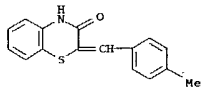
IT **54874-55-4P 54874-85-0P 95476-30-5P**
95476-31-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and alkylation of, with (chloroethyl)morpholine)
RN 54874-55-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2,4-dichlorophenyl)methylene]- (9CI) (CA INDEX NAME)



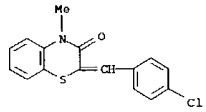
RN 54874-85-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-chlorophenyl)methylene]- (9CI) (CA INDEX NAME)



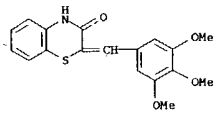
RN 95476-30-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methylphenyl)methylene]- (9CI) (CA INDEX NAME)



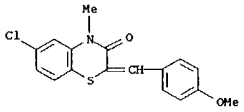
L4 ANSWER 43 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



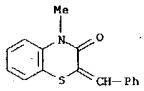
L4 ANSWER 43 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 95476-31-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3,4,5-trimethoxyphenyl)methylene]- (9CI) (CA INDEX NAME)



IT **95476-11-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and ring enlargement of, benzothiazepine from)
RN 95476-11-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 6-chloro-2-[(4-methoxyphenyl)methylene]-4-methyl- (9CI) (CA INDEX NAME)



IT **30752-17-1 85809-67-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(ring enlargement of, benzothiazepine from)
RN 30752-17-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)- (9CI) (CA INDEX NAME)



RN 85809-67-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-chlorophenyl)methylene]-4-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 44 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1985:45965 CAPLUS
DOCUMENT NUMBER: 102:45965
TITLE: 1,4-Benzothiazines
PATENT ASSIGNEE(S): Hamari Yakuhin Kogyo Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59184170	A2	19841019	JP 1983-58457	19830401
JP 05059113	B4	19930830		
PRIORITY APPLN. INFO.:			JP 1983-58457	19830401

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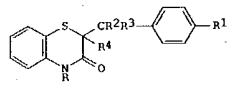
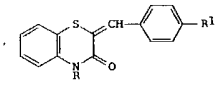
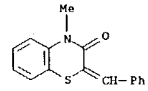


I



II

AB The title compds. I (R = substituted alkyl; R1 = H, halo, alkoxy; R2 = H, Cl, OH, acyloxy; R3 = H, or R2R3 = O; R4 = OH, acyloxy), useful as analgesics and antipyretics (no data) were prepared from the benzylidene derivs. II. Thus, heating a mixture of 2 g II (R = Me, R1 = H), 3.3 g Pb(OAc)4, and benzene at 60° for 3 h gave 2.0 g I (R = Me, R1 = R3 = H, R2 = R4 = AcO).
IT **30752-17-1**
RL: RCT (Reactant); RACT (Reactant or reagent)
(acetoxylation of)
RN 30752-17-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)- (9CI) (CA INDEX NAME)



L4 ANSWER 45 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1984:139162 CAPLUS
DOCUMENT NUMBER: 100:139162
TITLE: 1,5-Benzothiazepine derivatives
PATENT ASSIGNEE(S): Hamari Yakuhin Kogyo Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 58206577	A2	19831201	JP 1982-89339	19820525
PRIORITY APPLN. INFO.:			JP 1982-89339	19820525

OTHER SOURCE(S): CASREACT 100:139162
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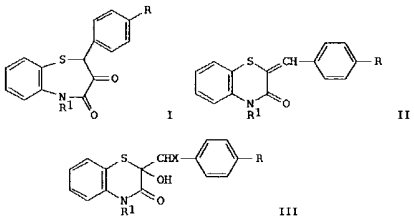
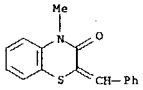


I II

III

AB 1,5-Benzothiazepine derivs. I [R, R1 = H, Me; Cl, Me; MeO, MeOCH2; MeO, Me2NCH2CH2 (free and HCl salt); MeO, HO; MeO, ClCH2CH2], useful as coronary vasodilators, antiarrhythmics, analgesics, and blood platelet aggregation inhibitors (no data), were prepared by, e.g., treatment of II with H2O2, H2O, and Me3SiX (X = halo) followed by ring expansion of the resulting III. Thus, 1.43 mL Me3SiCl was added to a mixture of 1 g II (R = H, R1 = Me) and 0.58 mL 30% aqueous H2O2 in THF during 15 min at -20° to -10° and the whole stirred 4 h with ice cooling and then 2 h at room temperature to give 0.96 g III (R = H, R1 = Me, X = Cl), which (1 g) was
treated with 1.04 g Ag2CO3 in Me2CO 30 min with ice cooling to give 0.73 g I (R = H, R1 = Me).
IT **30752-17-1**
RL: RCT (Reactant); RACT (Reactant or reagent)
(chlorination-hydroxylation of)
RN 30752-17-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)- (9CI) (CA INDEX NAME)



L4 ANSWER 45 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 46 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1984:85732 CAPLUS
DOCUMENT NUMBER: 100:85732
TITLE: 1,5-Benzothiazepines
PATENT ASSIGNEE(S): Hamari Yokuhin Kogyo Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 58180476	A2	19831021	JP 1982-62918	19820414
PRIORITY APPLN. INFO.:			JP 1982-62918	19820414

OTHER SOURCE(S): CASREACT 100:85732
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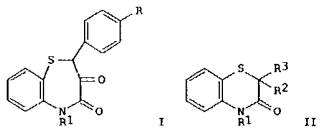
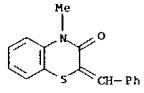


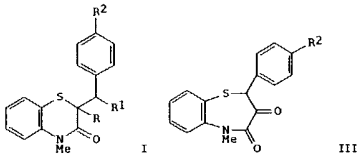
I II

AB The title compds. I [R = H, halo, alkoxy; R1 = (substituted) alkyl, dialkylamino] were prepared by, e.g., reaction of the benzothiazine derivs. II (R2R3 = p-RC6H4CH) with H2O2 and Me3SiX (X = halo) and ring enlargement of the resulting II (R2 = OH, R3 = p-RC6H4CHX). Thus, 1.43 mL Me3SiCl was added to a mixture of 1 g II (R2R3 = PhCH, R1 = Me), 0.58 mL 30% H2O2, and 10 mL THF at -0 to -10° over 15 min, the resulting mixture stirred at room temperature for 2 h, and the resulting II (R2 = H, R3 = PhCHCl) (1 g) was
treated with 1.04% Ag2CO3 with ice cooling for 30 min to give 0.73 g I (R = H, R1 = Me). I had coronary vasodilating, antiarrhythmic, analgesic and blood platelet aggregation-inhibiting activities (no data).
IT **30752-17-1**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with trimethylsilyl chloride and hydrogen peroxide)
RN 30752-17-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)- (9CI) (CA INDEX NAME)



L4 ANSWER 46 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 47 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1983:594934 CAPLUS
DOCUMENT NUMBER: 99:194934
TITLE: A simple ring expansion of 1,4-benzothiazines to give 1,5-benzothiazepines
AUTHOR(S): Maki, Yoshifumi; Sako, Magoichi; Mitsumori, Naomichi; Maeda, Sadayuki; Takaya, Masahiro
CORPORATE SOURCE: Gifu Coll. Pharm., Gifu, 502, Japan
SOURCE: Journal of the Chemical Society, Chemical Communications (1983), (8), 450-1
CODEN: JCCCAT; ISSN: 0022-4936
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 99:194934
GI



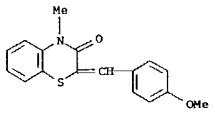
I III

AB Addition reaction of benzothiazinones I [RR1 = bond, R2 = H (II), OMe, Cl] with Me3SiOOH, generated in situ from Me3SiCl and H2O2, gave 90% I (R = OH, R1 = Cl, R2 as before), which underwent ring expansion on treatment with Ag2CO3 in THF at 0° for 30 min to give benzothiazepines III (R2 as before) in high yields. III (R2 = H) was also prepared from II by sequential oxidative addition of AcOH, hydrolysis, and ring expansion by SOCl2. The ring expansion involves a episulfonium ion intermediate.

IT **87833-81-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(chlorination/oxidation of)

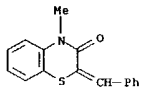
RN 87833-81-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methoxyphenyl)methylene]-4-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 47 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

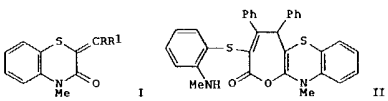


IT **30752-17-1**
RL: RCT (Reactant); RACT (Reactant or reagent)
(oxidative acetylation and chlorination/oxidation of)

RN 30752-17-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)- (9CI) (CA INDEX NAME)



L4 ANSWER 48 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1983:215550 CAPLUS
DOCUMENT NUMBER: 98:215550
TITLE: Metalation of 2-alkylidene-3-oxo-1,4-benzothiazines at the olefinic position and reactions with electrophiles
AUTHOR(S): Babudri, F.; Di Nunno, L.; Florio, S.
CORPORATE SOURCE: Ist. Chim. Org., Univ. Bari, Bari, I-70 126, Italy
SOURCE: Synthesis (1983), (3), 230-1
CODEN: SYNTBF; ISSN: 0039-7881
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 98:215550
GI

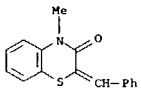


I II

AB Lithiation of I (R = Ph, 3,4-(MeO)2C6H3, R1 = H) by LiN(CHMe2)2 at -100° gave intermediate I (R1 = Li) which reacted with electrophiles R2X (R2 = Et, PhCH2, H2C:CHCH2, X = Br; R2 = D, X = Cl; R2 = Me, X = iodo; R2X = Ac2O, PhSSPh) to give 50-92% of the corresponding I (R1 = R2). Allowing I (R = Ph, R1 = Li) to warm to room temperature gave 60% II.

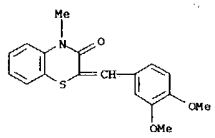
IT **30752-17-1 85809-71-8**
RL: RCT (Reactant); RACT (Reactant or reagent)
(metalation of, by lithium diisopropylamide)

RN 30752-17-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)- (9CI) (CA INDEX NAME)



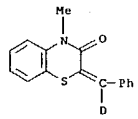
RN 85809-71-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3,4-dimethoxyphenyl)methylene]-4-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 48 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

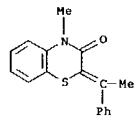


IT **85810-72-6P 85810-73-7P 85810-74-8P**
85810-75-9P 85810-76-0P 85810-77-1P
85810-78-2P 85810-79-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 85810-72-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene-d)- (9CI) (CA INDEX NAME)

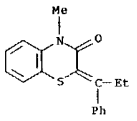


RN 85810-73-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(1-phenylethylidene)- (9CI) (CA INDEX NAME)

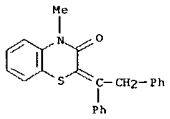


RN 85810-74-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(1-phenylpropylidene)- (9CI) (CA INDEX NAME)

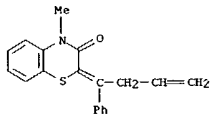
L4 ANSWER 48 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



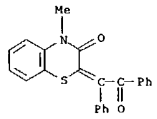
RN 85810-75-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1,2-diphenylethylidene)-4-methyl- (9CI) (CA INDEX NAME)



RN 85810-76-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(1-phenyl-3-butenylidene)- (9CI) (CA INDEX NAME)

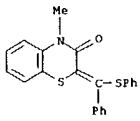


RN 85810-77-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(oxodiphenylethylidene)- (9CI) (CA INDEX NAME)

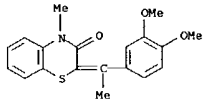


L4 ANSWER 48 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 85810-78-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-[phenyl(phenylthio)methylene]- (9CI) (CA INDEX NAME)

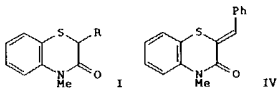


RN 85810-79-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[1-(3,4-dimethoxyphenyl)ethylidene]-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 49 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

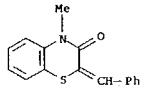
ACCESSION NUMBER: 1983:215549 CAPLUS
DOCUMENT NUMBER: 98:215549
TITLE: Stereoselective synthesis of 2-alkylidene-3,4-dihydro-3-oxo-2H-1,4-benzothiazines
AUTHOR(S): Babudri, F.; Di Nunno, L.; Florio, S.
CORPORATE SOURCE: Ist. Chim. Org., Univ. Bari, Bari, 70126, Italy
SOURCE: Tetrahedron (1982), 38(20), 3059-65
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 98:215549
GI



AB Metalation of benzothiazine (I; R = H) (II) with LiN(CHMe2)2 followed by condensation reaction with aldehydes gave mixture of diastereomeric aldols, which on acetylation and AcOH elimination gave high yields of the title compds., stereoselectively. E.g., metalation and reaction of II with PhCHO for 30 min gave 82% of a 1:1 mixture of threo- and erythro-I [R = CH(OH)Ph], which on acetylation gave threo- and erythro-I [R = CH(OAc)Ph] (III), in 88 and 80% yield, resp. Elimination reaction of III gave 62% benzothiazine IV.

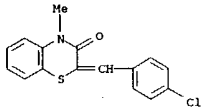
IT **30752-17-1P 85809-67-2P 85809-68-3P 85809-69-4P 85809-70-7P 85809-71-8P 85809-72-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 30752-17-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)- (9CI) (CA INDEX NAME)

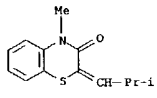


RN 85809-67-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-chlorophenyl)methylene]-4-methyl- (9CI) (CA INDEX NAME)

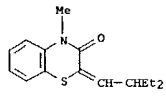
L4 ANSWER 49 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



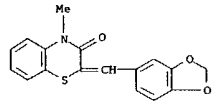
RN 85809-68-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(2-methylpropylidene)- (9CI) (CA INDEX NAME)



RN 85809-69-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-ethylbutylidene)-4-methyl- (9CI) (CA INDEX NAME)

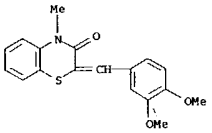


RN 85809-70-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1,3-benzodioxol-5-ylmethylene)-4-methyl- (9CI) (CA INDEX NAME)

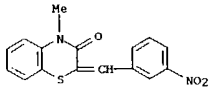


RN 85809-71-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3,4-dimethoxyphenyl)methylene]-4-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 49 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

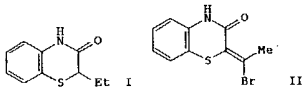


RN 85809-72-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-[(3-nitrophenyl)methylene]-(9CI) (CA INDEX NAME)



L4 ANSWER 50 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1982:616104 CAPLUS
DOCUMENT NUMBER: 97:216104
TITLE: Structure of the bromination product of 2-ethyl-1,4-benzothiazin-3(4H)-one
AUTHOR(S): Bates, Robert B.; Duguay, Laurent M.; Klenck, Robert E.; Kriek, George R.; Tempesta, Michael S.; Brewer, Arthur D.
CORPORATE SOURCE: Dep. Chem., Univ. Arizona, Tucson, AZ, 85721, USA
SOURCE: Journal of Heterocyclic Chemistry (1982), 19(4), 927-8
CODEN: JHTCAD; ISSN: 0022-152X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 97:216104
GI

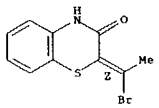


AB Ethyl-1,4-benzothiazinone I and bromine react to give (Z)-(bromoethylidene)-1,4-benzothiazinone II which results from a complex bromination-oxidation sequence. The structure II was determined by an x-ray crystal structure anal.

IT **83715-98-4P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and crystal structure of)

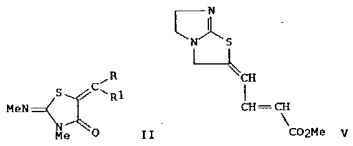
RN 83715-98-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1-bromoethylidene)-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L4 ANSWER 51 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1982:582315 CAPLUS
DOCUMENT NUMBER: 97:182315
TITLE: Products from dimethyl hex-2-en-1-yne-1,6-dioate and dimethyl penta-2,3-diene-1,5-dioate with compounds possessing two adjacent nucleophilic centers
AUTHOR(S): Acheson, R. Morrin; Wallis, John D.
CORPORATE SOURCE: Dep. Biochem., Univ. Oxford, Oxford, OX1 3QU, UK
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1982), (8), 1905-14
CODEN: JCPRB4; ISSN: 0300-922X
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



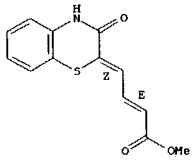
AB MeO2CC.tplbond.CCH:CHCO2Me (I) was sulfurized, mainly in the 5-position, by thioureas and thioamides. In some cases cis as well as trans addition was observed, even in MeOH. E.g., I with (MeNH)2CS in MeOH at room temperature for 6 h gave 52% II (R = E-CH:CHCO2Me, R1 = H) (III) and 1.6% II (R = H, R1 = E-CH:CHCO2Me) (IV); the same reaction in dry MeCN gave a 14:86 mixture of III and IV. Imidazoline- and benzimidazole-2-thione reacted with I at the 4-position to give fused thiazinones. E.g., I with imidazoline-2-thione in warm MeCN gave 14.0% V. 2-Aminobenzothiazole, 2-aminothiazole, and 2-aminopyridine added to the 4-position of I via the ring N; subsequent cyclization gave fused pyrimidones. C6H4(NH2)2-1,2 (VI) and 2-H2NC6H4SH (VII) added at the 5-position, but addition at the 4-position was followed by further Michael addition to the 3-position. With (MeO2CCH:)2C, VI and VII gave cyclic compds. with an exocyclic unsatd. ester group, whereas thioureas gave derivs. of Me 4-oxothiazin-6-ylacetate.

IT **83443-74-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 83443-74-7 CAPLUS
CN 2-Butenoic acid, 4-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester, (Z,E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

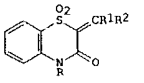
L4 ANSWER 51 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L4 ANSWER 52 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1981:121569 CAPLUS
DOCUMENT NUMBER: 94:121569
TITLE: 2-Methylene-2,3-dihydro-3-oxo-4H-1,4-benzothiazine-1,1-dioxide compounds
INVENTOR(S): Eiden, Fritz; Meinel, Franz; Mayer, Dieter
PATENT ASSIGNEE(S): Thiemann, Dr., G.m.b.H. Chem.-Pharm. Fabrik, Fed. Rep. Ger.
SOURCE: Ger. Offen., 12 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2912445	A1	19801009	DE 1979-2912445	19790329
PRIORITY APPLN. INFO.:			DE 1979-2912445	19790329

GI

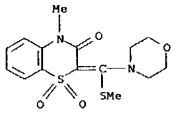


I

AB Antiarrhythmic (no data) methylenebenzothiazinone dioxides I (R = H, alkyl; R1 = alkylthio; R2 = amino) were prepared Thus, I (R = Me, R1 = R2 = SMe) was treated with morpholine to give 42% I (R = Me, R1 = SMe, R2 = morpholino).

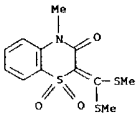
IT **70685-34-6P 70685-35-7P 70685-36-8P**
76952-60-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 70685-34-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-[(methylthio)-4-morpholinylmethylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)

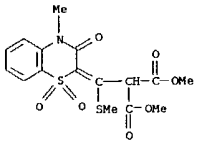


RN 70685-35-7 CAPLUS
CN Propanedioic acid, [(3,4-dihydro-4-methyl-1,1-dioxido-3-oxo-2H-1,4-

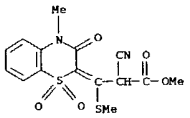
L4 ANSWER 52 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



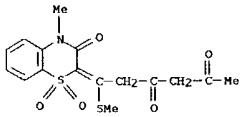
L4 ANSWER 52 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
benzothiazin-2-ylidene)(methylthio)methyl]-, dimethyl ester (9CI) (CA INDEX NAME)



RN 70685-36-8 CAPLUS
CN Propanoic acid, 2-cyano-3-(3,4-dihydro-4-methyl-1,1-dioxido-3-oxo-2H-1,4-benzothiazin-2-ylidene)-3-(methylthio)-, methyl ester (9CI) (CA INDEX NAME)



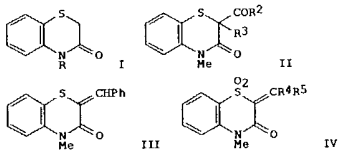
RN 76952-60-8 CAPLUS
CN 2,4-Hexanedione, 6-(3,4-dihydro-4-methyl-1,1-dioxido-3-oxo-2H-1,4-benzothiazin-2-ylidene)-6-(methylthio)- (9CI) (CA INDEX NAME)



IT **70685-33-5**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with amines)

RN 70685-33-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[bis(methylthio)methylene]-4-methyl-, 1,1-dioxide (9CI) (CA INDEX NAME)

L4 ANSWER 53 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1979:439408 CAPLUS
DOCUMENT NUMBER: 91:39408
TITLE: 2,3-Dihydro-1,4-benzothiazin-3-ones
AUTHOR(S): Eiden, Fritz; Meinel, Franz
CORPORATE SOURCE: Inst. Pharm. Lebensmittelchem., Univ. Muenchen, Munich, 8000/2, Fed. Rep. Ger.
SOURCE: Archiv der Pharmazie (Weinheim, Germany) (1979), 312(4), 302-12
CODEN: ARPMAS; ISSN: 0365-6233
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 91:39408
GI

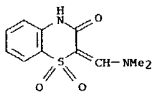


I II III IV

AB Title compds I (R = H, Me) and S-oxides and S,S-dioxides of I were prepared e.g., by cyclocondensation of 2-HSC6H4NH2 with ClCH2CO2R1 (R1 = H, Et), followed by oxidation and/or methylation. I (R = Me) reacted with carboxylic esters and NaH to give II (R2 = Me, Ph, COCO2Et; R3 = H). Reaction of II (R2 = Me, R3 = H) with H2O2-HOAc gave II (R3 = OAc). I or their oxides reacted with aldehydes; e.g., I (R = Me) and BzH gave III. I dioxide (R = Me) reacted with CS2-Me2SO4 to give IV (R4 = R5 = MeS) and with DMF di-Me acetal to give IV (R4 = Me2N, R5 = H).

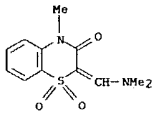
IT **70685-26-6P 70685-27-7P 70685-28-8P**
70685-29-9P 70685-33-5P 70685-34-6P
70685-35-7P 70685-36-8P 70685-37-9P
70685-38-0P 70685-39-1P 70685-40-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 70685-26-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(dimethylamino)methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)

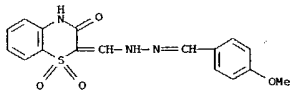


RN 70685-27-7 CAPLUS

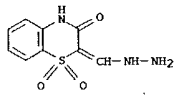
L4 ANSWER 53 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(dimethylamino)methylene]-4-methyl-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 70685-28-8 CAPLUS
CN Benzaldehyde, 4-methoxy-, [(3,4-dihydro-1,1-dioxido-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]hydrazone (9CI) (CA INDEX NAME)

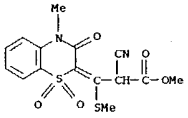


RN 70685-29-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(hydrazinomethylene)-, 1,1-dioxide (9CI) (CA INDEX NAME)

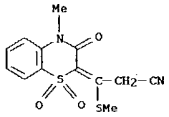


RN 70685-33-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[bis(methylthio)methylene]-4-methyl-, 1,1-dioxide (9CI) (CA INDEX NAME)

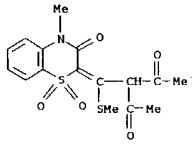
L4 ANSWER 53 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



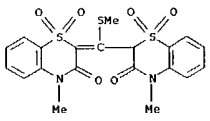
RN 70685-37-9 CAPLUS
CN Propanenitrile, 3-(3,4-dihydro-4-methyl-1,1-dioxido-3-oxo-2H-1,4-benzothiazin-2-ylidene)-3-(methylthio)- (9CI) (CA INDEX NAME)



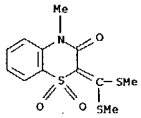
RN 70685-38-0 CAPLUS
CN 2,4-Pentanedione, 3-[(3,4-dihydro-4-methyl-1,1-dioxido-3-oxo-2H-1,4-benzothiazin-2-ylidene)(methylthio)methyl]- (9CI) (CA INDEX NAME)



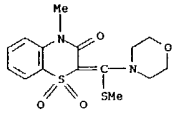
RN 70685-39-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3,4-dihydro-4-methyl-1,1-dioxido-3-oxo-2H-1,4-benzothiazin-2-ylidene)(methylthio)methyl]-4-methyl-, 1,1-dioxide (9CI) (CA INDEX NAME)



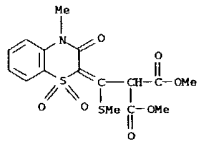
L4 ANSWER 53 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 70685-34-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-[(methylthio)-4-morpholinylmethylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)

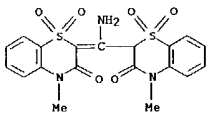


RN 70685-35-7 CAPLUS
CN Propanedioic acid, [(3,4-dihydro-4-methyl-1,1-dioxido-3-oxo-2H-1,4-benzothiazin-2-ylidene)(methylthio)methyl]-, dimethyl ester (9CI) (CA INDEX NAME)



RN 70685-36-8 CAPLUS
CN Propanoic acid, 2-cyano-3-(3,4-dihydro-4-methyl-1,1-dioxido-3-oxo-2H-1,4-benzothiazin-2-ylidene)-3-(methylthio)-, methyl ester (9CI) (CA INDEX NAME)

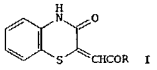
L4 ANSWER 53 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 70685-40-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[amino(3,4-dihydro-4-methyl-1,1-dioxido-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-4-methyl-, 1,1-dioxide (9CI) (CA INDEX NAME)



L4 ANSWER 54 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1979:152210 CAPLUS
DOCUMENT NUMBER: 90:152210
TITLE: 2-Phenacylidenebenzo-1,4-thiazin-3-ones
INVENTOR(S): Andreichikov, Yu. S.; Tendryakova, S. P.; Nalimova, Yu. A.; Voronova, L. A.; Vilenchik, Ya. M.
PATENT ASSIGNEE(S): Perm Pharmaceutical Institute, USSR
SOURCE: U.S.S.R. From: Otkrytiya, Izobret., Prom. Obraztsy, Tovarnye Znaki 1978, 55(40), 78.
CODEN: URXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Russian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
SU 630254	T	19781030	SU 1976-2361368		19760518
PRIORITY APPLN. INFO.:			SU 1976-2361368	A	19760518

GI

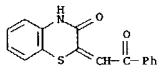


I

AB The preparation of title compds. I (R = Ph, p-tolyl, p-MeOC6H4, BrC6H4) by treating o-HSC6H4NH2 with a dicarbonyl derivative in an organic solvent was improved by using the corresponding 5-aryl-2,3-furandione as the dicarbonyl derivative in C6H6.

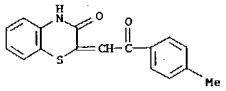
IT **64393-75-5P 64393-76-6P 64393-77-7P**
64393-80-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 64393-75-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-oxo-2-phenylethylidene)- (9CI) (CA INDEX NAME)

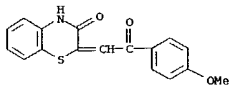


RN 64393-76-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-methylphenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)

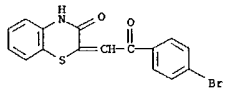
L4 ANSWER 54 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 64393-77-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-methoxyphenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)



RN 64393-80-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-bromophenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)



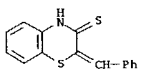
L4 ANSWER 55 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1979:54901 CAPLUS
DOCUMENT NUMBER: 90:54901
TITLE: Studies of the blue color of some mesoionic 1,3-thiazolo[3,2-a]-4-quinazolones
AUTHOR(S): Talukdar, P. B.; Sengupta, S. K.; Datta, A. K.
CORPORATE SOURCE: Res. Dev. Div., East India Pharm. Works Ltd., Calcutta, India
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1978), 16B(8), 678-82
CODEN: IJSBDB; ISSN: 0376-4699
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 90:54901

GI For diagram(s), see printed CA Issue.

AB Synthetic studies on the blue color of mesoionic thiazolo[3,2-a]-4-quinazolones (I, R = e.g. p-MeC6H4) suggest that an acyl type substituent at N-3 and a polar CO group at N-1 in the 4-quinazolone residue are essential structural features necessary for the development of a blue color. Whereas 9-mercaptophenanthridine gives a stable orange-yellow compound, attempted synthesis of similar fused ring mesoionic systems from 1,8-naphthyridine, 1,4-benzothiazine and quinoxaline derivs. yield highly sensitive unstable compds.

IT **69001-93-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with sodium chloroacetate)

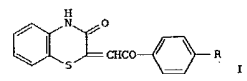
RN 69001-93-0 CAPLUS
CN 2H-1,4-Benzothiazine-3(4H)-thione, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)



L4 ANSWER 56 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1978:529528 CAPLUS
DOCUMENT NUMBER: 89:129528
TITLE: 2-Phenacylidenebenzo-1,4-thiazin-3-ones
INVENTOR(S): Andreichikov, Yu. S.; Tendryakova, S. P.; Nalimova, Yu. A.; Voronova, L. A.
PATENT ASSIGNEE(S): Perm Pharmaceutical Institute, USSR
SOURCE: U.S.S.R. From: Otkrytiya, Izobret., Prom. Obraztsy, Tovarnye Znaki 1978, 55(26), 76.
CODEN: URXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Russian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
SU 615071	T	19780715	SU 1975-2154320		19750708
PRIORITY APPLN. INFO.:			SU 1975-2154320	A	19750708

GI

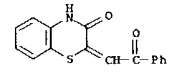


I

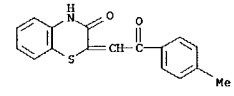
AB Title compds. I (R = H, Me, MeO, Et, Br) were prepared by treating o-H2NC4H4SH with p-RC6H4COCH2COCO2H at 95-105° in dioxane.

IT **64393-75-5P 64393-76-6P 64393-77-7P**
64393-78-8P 64393-80-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 64393-75-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-oxo-2-phenylethylidene)- (9CI) (CA INDEX NAME)

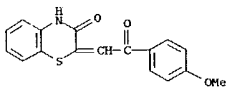


RN 64393-76-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-methylphenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)

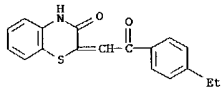


L4 ANSWER 56 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

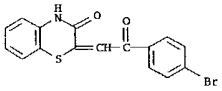
RN 64393-77-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-methoxyphenyl)-2-oxoethylidene]-(9CI) (CA INDEX NAME)



RN 64393-78-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-ethylphenyl)-2-oxoethylidene]-(9CI) (CA INDEX NAME)



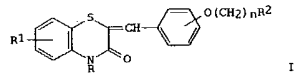
RN 64393-80-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-bromophenyl)-2-oxoethylidene]-(9CI) (CA INDEX NAME)



L4 ANSWER 57 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1978:509526 CAPLUS
DOCUMENT NUMBER: 89:109526
TITLE: Substituted 2H-1,4-benzothiazin-3(4H)-ones
INVENTOR(S): Krapcho, John
PATENT ASSIGNEE(S): E. R. Squibb and Sons, Inc., USA
SOURCE: U.S., 7 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4078062	A	19780307	US 1976-736620	19761028
PRIORITY APPLN. INFO.:			US 1976-736620	19761028

GI

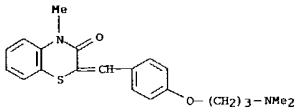


I

AB The title compds. I (R = H, alkyl, aralkyl, R1 = H, halo, alkyl, alkoxy, CF3, NH2, NO2, R2 = dialkylamino, piperidino, morpholino, alkylpiperazinyl, n = 2-5), useful as inflammation inhibitors, were prepared by condensing 4-methyl-1,4-benzothiazin-3(4H)-one with R2(CH2)nOC6H4CHO, isolated as the hydrochlorides.

IT **66820-19-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and inflammation inhibiting activity of)

RN 66820-19-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-[3-(dimethylamino)propoxy]phenyl]methylene]-4-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

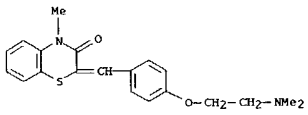


● HCl

IT **66820-21-1P 66820-24-4P**

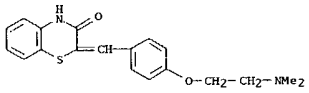
L4 ANSWER 57 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and inflammation-inhibiting activity of)

RN 66820-21-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-[2-(dimethylamino)ethoxy]phenyl]methylene]-4-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 66820-24-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-[2-(dimethylamino)ethoxy]phenyl]methylene]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

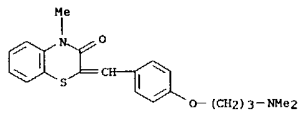
IT **66820-18-6P 66820-20-0P 66820-22-2P**
66820-23-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and salt formation from)

RN 66820-18-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-[3-(dimethylamino)propoxy]phenyl]methylene]-4-methyl-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 66820-17-5
CMF C21 H24 N2 O2 S

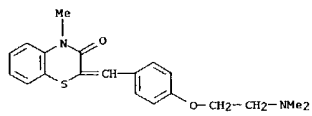
L4 ANSWER 57 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



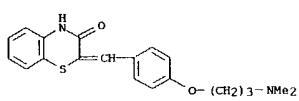
CM 2

CRN 144-62-7
CMF C2 H2 O4

RN 66820-20-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-[2-(dimethylamino)ethoxy]phenyl]methylene]-4-methyl- (9CI) (CA INDEX NAME)

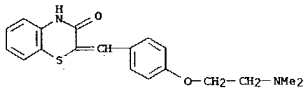


RN 66820-22-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-[3-(dimethylamino)propoxy]phenyl]methylene]- (9CI) (CA INDEX NAME)



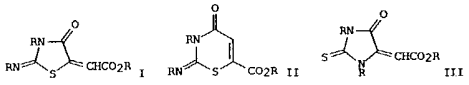
RN 66820-23-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-[2-(dimethylamino)ethoxy]phenyl]methylene]- (9CI) (CA INDEX NAME)

L4 ANSWER 57 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L4 ANSWER 58 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1978:405576 CAPLUS
DOCUMENT NUMBER: 89:5576
TITLE: Carbon-13 NMR spectroscopy, part 19. Structures of addition products of acetylenedicarboxylic acid esters with various dinucleophiles. An application of C,H-spin-coupling constants
AUTHOR(S): Voegeli, Ulrich; Von Philipsborn, Wolfgang; Nagarajan, Kuppuswamy; Nair, Mohan D.
CORPORATE SOURCE: Inst. Org. Chem., Univ. Zurich, Zurich, Switz.
SOURCE: Helvetica Chimica Acta (1978), 61(2), 607-17
CODEN: HCACAV; ISSN: 0018-019X
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

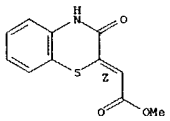


AB Heterocyclic compds. of the general types I, II, and III (R = alkyl), obtained by addition reaction of acetylenedicarboxylate esters with thioureas, cyclic amidines, etc., were studied by C-13 NMR. Constitutional isomers were distinguished by C-H spin coupling consts. Configurations of trisubstituted exocyclic C-C double bonds were determined

IT **37893-72-4 66628-74-8**
RL: PRP (Properties)
(NMR of)

RN 37893-72-4 CAPLUS
CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester, (Z)- (9CI) (CA INDEX NAME)

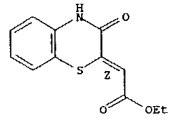
Double bond geometry as shown.



RN 66628-74-8 CAPLUS
CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, ethyl ester, (Z)- (9CI) (CA INDEX NAME)

L4 ANSWER 58 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

Double bond geometry as shown.

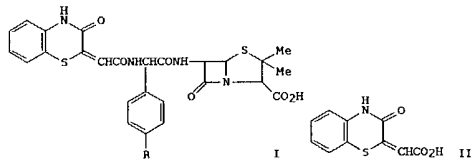


L4 ANSWER 59 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1978:50888 CAPLUS
DOCUMENT NUMBER: 88:50888
TITLE: Acylaminopenicillins
INVENTOR(S): Kuramoto, Masashi; Yaso, Masao; Sakeko, Magoichi; Saito, Satoshi; Yamaguchi, Tsutomu; Maki, Hirofumi
PATENT ASSIGNEE(S): Toyo Jozo Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 52091888	A2	19770802	JP 1976-8740	19760128
PRIORITY APPLN. INFO.:			JP 1976-8740	19760128

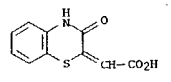
GI



AB Two title compds. I (R = H, OH) were prepared by reaction of ampicillin or amoxicillin with II or its derivs. Thus, 0.18 mL ClCO2Et and a mixture of 0.44 g II and Et3N in DMF (ice-NaCl cooled) were stirred 20 min, a mixture of 0.8 g ampicillin-3H2O and Et3N in DMF added, and the whole stirred 5 h at room temperature to give 1.05 g I (R = H) (III). Min. growth inhibitory concentration of III against Pseudomonas pyocyanea was 6.2 mcg/mL.

IT **63351-92-8**
RL: RCT (Reactant); RACT (Reactant or reagent)
(acylation of ampicillin by)

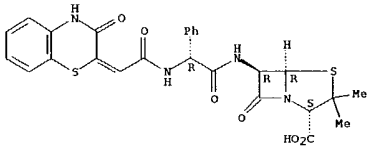
RN 63351-92-8 CAPLUS
CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)- (9CI) (CA INDEX NAME)



IT **65283-01-4P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

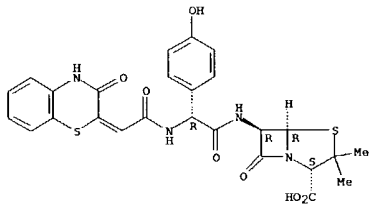
L4 ANSWER 59 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
(prepn. and bactericidal activity of)
RN 65283-01-4 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)acetyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

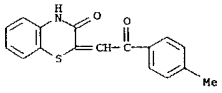


IT **65283-02-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 65283-02-5 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)acetyl]amino](4-hydroxyphenyl)acetyl]amino]-3,3-dimethyl-7-oxo-, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

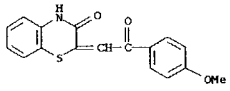
Absolute stereochemistry.
Double bond geometry unknown.



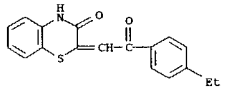
L4 ANSWER 60 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-methylphenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)



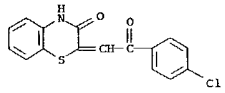
RN 64393-77-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-methoxyphenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)



RN 64393-78-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-ethylphenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)

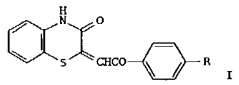


RN 64393-79-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-chlorophenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)

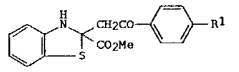


RN 64393-80-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-bromophenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)

L4 ANSWER 60 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1977:567957 CAPLUS
DOCUMENT NUMBER: 87:167957
TITLE: Chemistry of oxalyl derivatives of methyl ketones. V. Reaction of aroylpyruvic acids and their derivatives with o-aminothiophenol
AUTHOR(S): Andreichikov, O. S.; Tendryakova, S. P.; Nalimova, Yu. A.; Voronova, L. A.
CORPORATE SOURCE: Perm. Farm. Inst., Perm, USSR
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1977), (6), 755-7
CODEN: KGSSAQ; ISSN: 0132-6244
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI

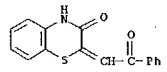


I



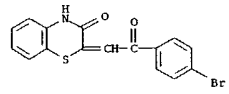
II

AB Benzothiazinones I (R = H, Me, MeO, Et, Cl, Br, F) were obtained in 72-82% yields by cyclocondensation p-RC6H4COCH2COCO2H with o-H2NC6H4SH. I (R = H, Me, MeO, Br) were obtained in 76-98% yields by cyclocondensation of the corresponding 5-aryl-2,3-furandione with o-H2NC6H4SH. Benzothiazolines II (R1 = H, Me, MeO, Cl) were obtained in 85-98% yields by cyclocondensation of p-R1C6H4COCH2COCO2Me with o-H2NC6H4SH.
IT **64393-75-5P 64393-76-6P 64393-77-7P**
64393-78-8P 64393-79-9P 64393-80-2P
64393-81-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 64393-75-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-oxo-2-phenylethylidene)- (9CI) (CA INDEX NAME)

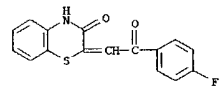


RN 64393-76-6 CAPLUS

L4 ANSWER 60 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



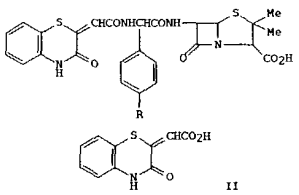
RN 64393-81-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-fluorophenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)



L4 ANSWER 61 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1977:468378 CAPLUS
DOCUMENT NUMBER: 87:68378
TITLE: α-Acylamidobenzylpenicillins
INVENTOR(S): Kuramoto, Masashi; Yaso, Masao; Sakou, Magoichi; Saito, Tetsu; Yamaguchi, Tsutomu; Maki, Yoshifumi
PATENT ASSIGNEE(S): Toyo Jozo Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 51133298	A2	19761118	JP 1975-58239	19750515

PRIORITY APPLN. INFO.: JP 1975-58239 19750515
GI



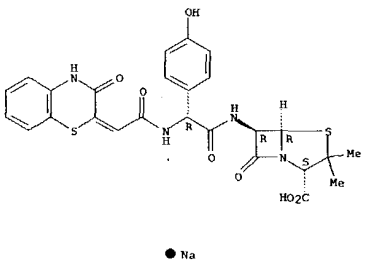
I

II

AB I (R = H, OH) Na salts were prepared by acylating α-aminobenzylpenicillins or their salts with II or its reactive derivs. I (R = H) inhibited the growth of Pseudomonas pyocyanea NCTC 10490 at 0.2 μg/mL. Thus, 0.44 g II was activated with ClCO2Et-Et3N in DMF and stirred with 0.8 g ampicillin-3H2O to give 1.05 g I (R = H) Na salt.

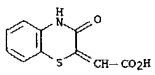
IT **63351-92-8**
RL: RCT (Reactant); RACT (Reactant or reagent)
(acylation of ampicillin amd amoxycillin by)
RN 63351-92-8 CAPLUS
CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)- (9CI) (CA INDEX NAME)

L4 ANSWER 61 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



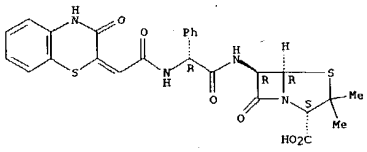
● Na

L4 ANSWER 61 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



IT **63351-93-9P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and bactericidal activity of)
RN 63351-93-9 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)acetyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, monosodium salt, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

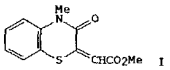


● Na

IT **63397-82-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 63397-82-0 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)acetyl]amino](4-hydroxyphenyl)acetyl]amino]-3,3-dimethyl-7-oxo-, monosodium salt, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 62 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1977:105433 CAPLUS
DOCUMENT NUMBER: 86:105433
TITLE: Facile thermal dimerization of a photochemically isomerized olefin
AUTHOR(S): Maki, Yoshifumi; Sako, Magoichi
CORPORATE SOURCE: Gifu Coll. Pharm., Gifu, Japan
SOURCE: Chemical & Pharmaceutical Bulletin (1976), 24(9), 2250-3
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

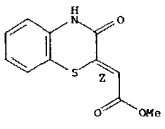


I

AB In sharp contrast to the Z form of I, the photochem.-produced isomer, E-I, underwent a facile thermal dimerization to form a cyclobutane derivative Thus, the apparent photodimerization of Z-I involves primarily the thermal dimerization of its photochem. produced isomer.

IT **37893-72-4**
RL: RCT (Reactant); RACT (Reactant or reagent)
(methylation of)
RN 37893-72-4 CAPLUS
CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester, (Z)- (9CI) (CA INDEX NAME)

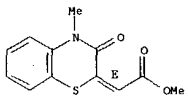
Double bond geometry as shown.



IT **61955-27-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and photochem. cyclodimerization of)
RN 61955-27-9 CAPLUS
CN Acetic acid, (3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

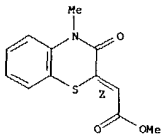
Double bond geometry as shown.

L4 ANSWER 62 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



IT **61955-26-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and photoisomerization of)
RN 61955-26-8 CAPLUS
CN Acetic acid, (3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

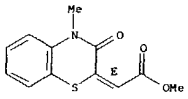


IT **61960-48-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 61960-48-3 CAPLUS
CN Acetic acid, (3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester, (E)-, dimer (9CI) (CA INDEX NAME)

CM 1

CRN 61955-27-9
CMF C12 H11 N O3 S

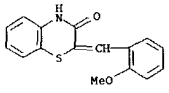
Double bond geometry as shown.



L4 ANSWER 63 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1976:74279 CAPLUS
DOCUMENT NUMBER: 84:74279
TITLE: 3,4-Dihydro-3-oxo-2H-1,4-benzothiazines and benzoxazines
INVENTOR(S): Worley, Jimmy W.
PATENT ASSIGNEE(S): Monsanto Co., USA
SOURCE: U.S., 7 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3923709	A	19751202	US 1974-502114	19740830
PRIORITY APPLN. INFO.:			US 1974-502114	19740830

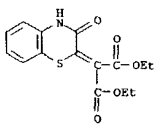
GI For diagram(s), see printed CA Issue.
AB The benzothiazines I (R = CH2CO2Et, X = m-F3CC6H4CH, 3,4-methylenedioxybenzylidene, p-MeOC6H4CH, m-O2NC6H4CH, 2,4-Cl2C6H3CH) were prepared by reaction of I [R = CH2CO2Et, X = H,P(O)(OEt)2] with aldehydes. I [R = CH2CO2Et; 3,5-(MeO)2C6H3CH, 3,4,5-(MeO)3C6H2CH, PhCH, cyclohexylidene, Me2C, etc.] were prepared by treating I [R = H, X = H,P(O)(OEt)2] with aldehydes followed by bromoacetates. Et 3,4-dihydro-2-(p-chlorobenzylidene)-3-oxo-2H-1,4-benzoxazine-4-acetate was similarly prepared In preemergence application at 4-10 lbs/acre I controlled broadleaf plants.
IT **58216-00-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with bromoacetate)
RN 58216-00-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-methoxyphenyl)methylene]- (9CI) (CA INDEX NAME)



L4 ANSWER 64 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1976:59503 CAPLUS
DOCUMENT NUMBER: 84:59503
TITLE: 2-Substituted methylene-3,4-dihydro-3-oxo-2H-1,4-benzothiazine-4-acetic acid and esters
INVENTOR(S): Worley, Jimmy W.
PATENT ASSIGNEE(S): Monsanto, USA
SOURCE: U.S., 3 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

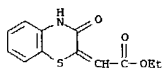
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3910904	A	19751007	US 1974-496507	19740812
PRIORITY APPLN. INFO.:			US 1974-496507	19740812

GI For diagram(s), see printed CA Issue.
AB Four benzothiazines I (X = H, CO2R; R = H, Me, Et; R1 = H, Et), useful in regulation of plant growth, e.g., soybeans, were prepared, where X = H, by reaction of 2-[(alkoxycarbonyl)methylene]-3,4-dihydro-3-oxo-2H-1,4-benzothiazine with BrCH2CO2Et in Me2CO at reflux in the presence of KOH (optionally followed by hydrolysis), and where X = CO2R, by reaction of 2-chloro-3,4-dihydro-3-oxo-2H-1,4-benzothiazine with P(OEt)3 at 100° and sequentially treating the product with CO(CO2Et)2 in EtOH containing EtONa and with BrCH2CO2Et in Me2CO-KOH.
IT **55043-52-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with ethyl bromoacetate)
RN 55043-52-2 CAPLUS
CN Propanedioic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, diethyl ester (9CI) (CA INDEX NAME)

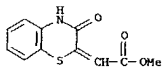


IT **13677-06-0 54255-33-3**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with ethyl bromoacetate)
RN 13677-06-0 CAPLUS
CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, ethyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 64 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

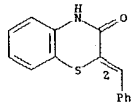


RN 54255-33-3 CAPLUS
CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 65 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1975:443441 CAPLUS
DOCUMENT NUMBER: 83:43441
TITLE: 2-Dialkylphosphonyl- and 2-alkylidene-3,4-dihydro-3-oxo-2H-1,4-benzothiazines
AUTHOR(S): Worley, J. W.; Ratts, K. Wayne; Cammack, K. L.
CORPORATE SOURCE: Res. Dep., Monsanto Agric. Prod. Co., St. Louis, MO, USA
SOURCE: Journal of Organic Chemistry (1975), 40(12), 1731-4
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 83:43441
GI *For diagram(s), see printed CA Issue.*
AB Benzothiazinylphosphonates [I, R = H, Me, CH2CO2Et; R1 = P(O)(OEt)2] were prepared by the Michaelis-Arbuzov reaction of P(OEt)3 with I(R1 = Cl). I [R1 = P(O)(OEt)2] reacts with R2CHO (R2 = H, Ph, substituted phenyl, 2-thienyl, 9-anthryl, PhCH:CH) to give (Z)-II.
IT **55043-20-4P 55043-21-5P 55043-22-6P**
55043-23-7P 55043-24-8P 55043-25-9P
55043-26-0P 55043-28-2P 55043-29-3P
55043-30-6P 55043-31-7P 55043-51-1P
55043-52-2P 55043-53-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 55043-20-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)-, (Z)- (9CI) (CA INDEX NAME)

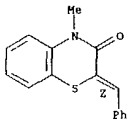
Double bond geometry as shown.



RN 55043-21-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)-, (Z)- (9CI) (CA INDEX NAME)

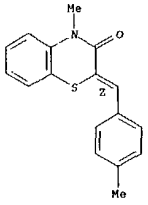
Double bond geometry as shown.

L4 ANSWER 65 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



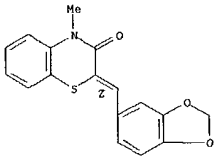
RN 55043-22-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-[(4-methylphenyl)methylene]-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 55043-23-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1,3-benzodioxol-5-ylmethylene)-4-methyl-, (Z)- (9CI) (CA INDEX NAME)

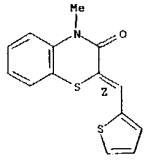
Double bond geometry as shown.



RN 55043-24-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(2-thienylmethylene)-, (Z)- (9CI) (CA INDEX NAME)

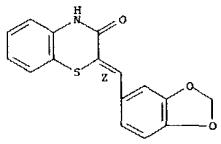
Double bond geometry as shown.

L4 ANSWER 65 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



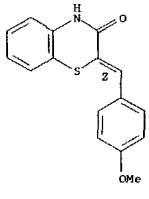
RN 55043-25-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1,3-benzodioxol-5-ylmethylene)-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 55043-26-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methoxyphenyl)methylene]-, (2Z)- (9CI) (CA INDEX NAME)

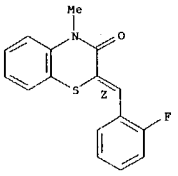
Double bond geometry as shown.



RN 55043-28-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-fluorophenyl)methylene]-4-methyl-, (Z)- (9CI) (CA INDEX NAME)

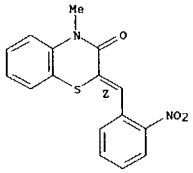
Double bond geometry as shown.

L4 ANSWER 65 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



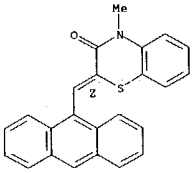
RN 55043-29-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-[(2-nitrophenyl)methylene]-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 55043-30-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(9-anthracenylmethylene)-4-methyl-, (Z)- (9CI) (CA INDEX NAME)

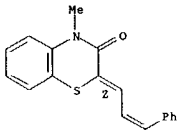
Double bond geometry as shown.



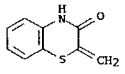
L4 ANSWER 65 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 55043-31-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(3-phenyl-2-propenylidene)-, (Z,?)- (9CI) (CA INDEX NAME)

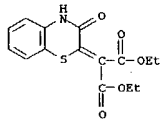
Double bond geometry as described by E or Z.



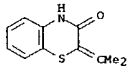
RN 55043-51-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-methylene- (9CI) (CA INDEX NAME)



RN 55043-52-2 CAPLUS
CN Propanedioic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, diethyl ester (9CI) (CA INDEX NAME)



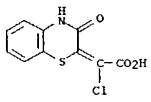
RN 55043-53-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1-methylethylidene)- (9CI) (CA INDEX NAME)



L4 ANSWER 65 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 66 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

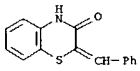
ACCESSION NUMBER: 1975:141592 CAPLUS
DOCUMENT NUMBER: 82:141592
TITLE: Heterocyclic coloring matters. II. Δ2,2-Bi(2H-1,4-benzothiazines)
AUTHOR(S): Kaul, B. L.
CORPORATE SOURCE: Dyes Dep.-Dyes Chem. Res., Sandoz Ltd., Basel, Switz.
SOURCE: Helvetica Chimica Acta (1974), 57(8), 2664-78
CODEN: HCACAV; ISSN: 0018-019X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 82:141592
GI For diagram(s), see printed CA Issue.
AB Dyes (I, R = H, Br, Cl, Me, MeO, CF3; R1=H, Me, MeO, EtO) having the Δ2,2'-bi(3,4-dihydro-3-oxo-2H-1,4-benzothiazine) chromophore were prepared by the one-step reaction of 2,3-dichloromaleic acid [1122-17-4] with zinc salts of o-aminobenzenethiol derivs. The structure, substitution reactions, mechanism of formation, color, and other relevant properties of the system were determined and compared to known thioindigos.
A synthesis of the basic skeleton of one of the Trichosiderins, the coloring matter of human red hair was described.
IT **54392-69-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 54392-69-7 CAPLUS
CN Acetic acid, chloro(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)- (9CI) (CA INDEX NAME)



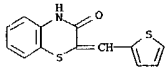
L4 ANSWER 67 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1975:140162 CAPLUS
DOCUMENT NUMBER: 82:140162
TITLE: 2-Arylmethylene-1,4-benzothiazin-3(4H)-ones
INVENTOR(S): Anzai, Naomichi; Ishii, Tadao; Shibata, Uichi; Seki, Shigeo
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 49101389	A2	19740925	JP 1973-15660	19730209
JP 57053350	B4	19821112		
PRIORITY APPLN. INFO.:			JP 1973-15660	19730209

GI For diagram(s), see printed CA Issue.
AB Title compds. I (R = Ph, MeOC6H4, O2NC6H4, BrC6H4, ClC6H4, Cl2C6H3, thienyl, furyl) are prepared by condensation of 2H-1,4-benzothiazin-3(4H)-one (II) and aromatic aldehydes. I had antiinflammatory effect in rats and were effective against HeLa cells and Trichomonas vaginalis. Thus, 1.7 g II was dissolved in 100 ml 2% KOH-EtOH and heated with 1.1 g BzH at 70° for 2 hr to give 82.6% I (R = Ph). Among 8 more I prepared were those where R = o-MeOC6H4, p-O2NC6H4, 2,4-Cl2C6H3, and 2-thienyl.
IT **24545-07-1P 50393-32-3P 54874-53-2P**
54874-54-3P 54874-55-4P 54874-62-3P
54874-84-9P 54874-85-0P 54913-29-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 24545-07-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)

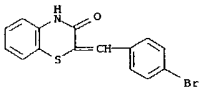


RN 50393-32-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-thienylmethylene)- (9CI) (CA INDEX NAME)

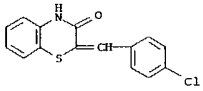


RN 54874-53-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-methylphenyl)methylene]- (9CI) (CA

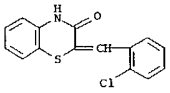
L4 ANSWER 67 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



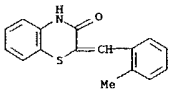
RN 54874-85-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-chlorophenyl)methylene]- (9CI) (CA INDEX NAME)



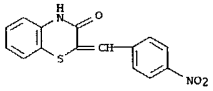
RN 54913-29-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-chlorophenyl)methylene]- (9CI) (CA INDEX NAME)



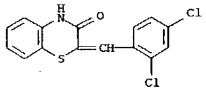
L4 ANSWER 67 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
INDEX NAME)



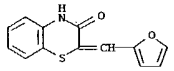
RN 54874-54-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-nitrophenyl)methylene]- (9CI) (CA INDEX NAME)



RN 54874-55-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2,4-dichlorophenyl)methylene]- (9CI) (CA INDEX NAME)

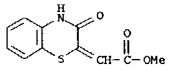


RN 54874-62-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-furanylmethylene)- (9CI) (CA INDEX NAME)

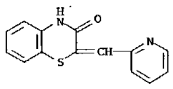


RN 54874-84-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-bromophenyl)methylene]- (9CI) (CA INDEX NAME)

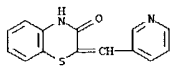
L4 ANSWER 68 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1974:552071 CAPLUS
DOCUMENT NUMBER: 81:152071
TITLE: Fungicides. XXIV. Reaction of 5-methoxycarbonylmethylidene-2-thioxo(or oxo)-4-thiazolidones with o-aminobenzenethiol and other thiols
AUTHOR(S): Nagase, Hiroshi
CORPORATE SOURCE: Agric. Chem. Div., Takeda Chem. Ind., Ltd., Osaka, Japan
SOURCE: Chemical & Pharmaceutical Bulletin (1974), 22(1), 42-9
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB A novel addition reaction of o-aminobenzenethiol to 5-methoxycarbonylmethylene-2-thioxo-(or oxo)-4-thiazolidones (I) gave 3-methyl (or benzyl)-5-(3-oxo-2,3-dihydro-4H-1,4-benzothiazin-2-yl)-2-thioxo(or oxo)-4-thiazolidones (II). I also reacted with thiols to afford 1:1 adducts (III and IV) in the presence of a catalytic amount of NEt3. Thermal cyclization of the adducts III to II was observed. The adducts IV dissociated into I and thiols when heated above their m.p. or dissolved in acetone or ethanol. Oxidation of II and IV gave the dehydro-compds. V and VI, resp.
IT **54255-33-3**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with triethylammonium benzyldithiocarbamate)
RN 54255-33-3 CAPLUS
CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 69 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1973:542782 CAPLUS
DOCUMENT NUMBER: 79:142782
TITLE: 4-[3-(Dimethylamino)propyl]-3,4-dihydro-2-(1-hydroxyethyl)-3-phenyl-2H-1,4-benzothiazine and related compounds. New class of antiinflammatory agents
AUTHOR(S): Krapcho, John; Turk, Chester F.
CORPORATE SOURCE: Squibb Inst. Med. Res., Princeton, NJ, USA
SOURCE: Journal of Medicinal Chemistry (1973), 16(7), 776-9
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Several of 23 benzothiazines synthesized show significant antiinflammatory activity in rats, the most potent being 4-[3-(dimethylamino)propyl]-3,4-dihydro-2-(1-hydroxyethyl)-3-phenyl-2H-1,4-benzothiazine-HCl (I-HCl) [42585-60-4] and 2-acetyl-4-[3-(dimethylamino)propyl]-3,4-dihydro-3-phenyl-2H-1,4-benzothiazine-HCl (II-HCl) [42381-03-3]. I and II inhibited carrageenin-induced rat paw edema at 55 and 65 mg/kg orally, respectively. To synthesize I, 2-aminobenzenethiol [137-07-5] was condensed with chloroacetic acid [79-11-8] to form 1,4-benzothiazin-3(4H)-one [5325-20-2], then with BzH to form the 2-benzylidene derivative and with 3-dimethylaminopropyl chloride [109-54-6] to attach the side chain. Interaction with MeMgBr followed by aqueous NH4Cl and heating resulted in rearrangement to II, reduction of which with NaBH4 yielded I.
IT **33216-62-5P 50346-41-3P 50346-42-4P 50346-43-5P 50393-32-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 33216-62-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-pyridinylmethylene)- (9CI) (CA INDEX NAME)

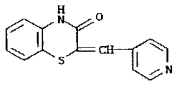


RN 50346-41-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(3-pyridinylmethylene)- (9CI) (CA INDEX NAME)

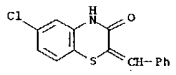


RN 50346-42-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(4-pyridinylmethylene)- (9CI) (CA INDEX

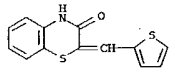
L4 ANSWER 69 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
NAME)



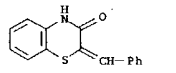
RN 50346-43-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 6-chloro-2-(phenylmethylene)- (9CI) (CA INDEX NAME)



RN 50393-32-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-thienylmethylene)- (9CI) (CA INDEX NAME)



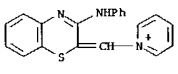
IT **24545-07-1**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with dimethylaminopropyl chloride)
RN 24545-07-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)



L4 ANSWER 70 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1973:124527 CAPLUS
DOCUMENT NUMBER: 78:124527
TITLE: Reaction of the Vilsmeier product, 3-chloro-2-dimethylaminomethylene-1,4-benzothiazene, with aromatic amines and active methylene compounds
AUTHOR(S): Shah, S. R.; Seshadri, S.
CORPORATE SOURCE: Dep. Chem. Technol., Univ. Bombay, India
SOURCE: Indian Journal of Chemistry (1972), 10(10), 977-81
CODEN: IJOCAP; ISSN: 0019-5103
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB The reaction of 3-chloro-2-dimethylaminomethylene-1,4-benzothiazine (I) with aromatic amines in HOAc was studied. The reaction with aniline and with p-chloroaniline in the presence of pyridine gave 2-anilinomethylene-1,4-benzothiazin-3(4H)-ones (II, R = H, Cl, resp.) and the 2-formyl-3-anilino-1,4-benzothiazines (III, R = H, Cl, resp.). The reaction with weakly basic aromatic amines proceeded directly (with- out involving rearrangement) to give anilinomethylenebenzothiazinones. The reaction of I with some active methylene compds. in HOAc in the presence of pyridine was studied.
IT **41526-80-1P 41526-81-2P 41526-85-6P 41526-86-7P 41526-87-8P 41526-88-9P 41526-89-0P 41526-90-3P 41526-91-4P 41526-92-5P 41526-93-6P 41526-94-7P 41526-95-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 41526-80-1 CAPLUS
CN Pyridinium, 1-[[3-(phenylamino)-2H-1,4-benzothiazin-2-ylidene]methyl]-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 50577-48-5
CMF C20 H16 N3 S



CM 2

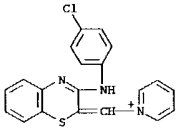
CRN 14797-73-0
CMF Cl O4

RN 41526-81-2 CAPLUS

L4 ANSWER 70 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CN Pyridinium, 1-[[3-[(4-chlorophenyl)amino]-2H-1,4-benzothiazin-2-ylidene]methyl]-, perchlorate (9CI) (CA INDEX NAME)

CM 1

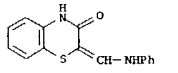
CRN 48209-78-5
CMF C20 H15 Cl N3 S



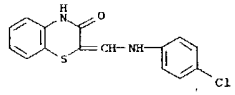
CM 2

CRN 14797-73-0
CMF Cl O4

RN 41526-85-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(phenylamino)methylene]- (9CI) (CA INDEX NAME)



RN 41526-86-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[(4-chlorophenyl)amino]methylene]- (9CI) (CA INDEX NAME)



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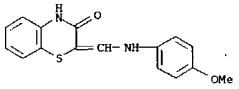
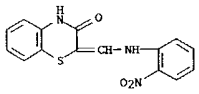
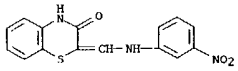
L4 ANSWER 70 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 41526-87-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[(4-methoxyphenyl)amino]methylene]- (9CI) (CA INDEX NAME)



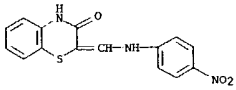
RN 41526-88-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[(2-nitrophenyl)amino]methylene]- (9CI) (CA INDEX NAME)



RN 41526-89-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[(3-nitrophenyl)amino]methylene]- (9CI) (CA INDEX NAME)

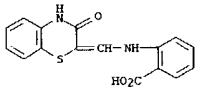


RN 41526-90-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[(4-nitrophenyl)amino]methylene]- (9CI) (CA INDEX NAME)

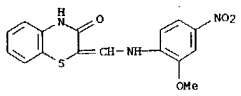


RN 41526-91-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[(2-methoxy-4-nitrophenyl)amino]methylene]- (9CI) (CA INDEX NAME)

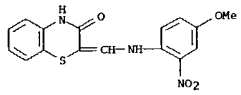
L4 ANSWER 70 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



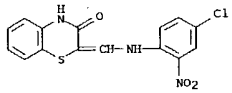
L4 ANSWER 70 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



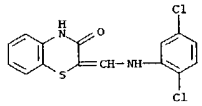
RN 41526-92-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[(4-methoxy-2-nitrophenyl)amino]methylene]- (9CI) (CA INDEX NAME)



RN 41526-93-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[(4-chloro-2-nitrophenyl)amino]methylene]- (9CI) (CA INDEX NAME)

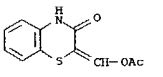


RN 41526-94-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[(2,5-dichlorophenyl)amino]methylene]- (9CI) (CA INDEX NAME)

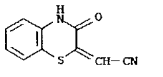


RN 41526-95-8 CAPLUS
CN Benzoic acid, 2-[[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]amino]- (9CI) (CA INDEX NAME)

L4 ANSWER 71 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1973:84341 CAPLUS
DOCUMENT NUMBER: 78:84341
TITLE: Reactions of Vilsmeier product, 3-chloro-2-dimethylaminomethylene-1,4-benzothiazine derived from 1,4-benzothiazin-3(4H)-one
AUTHOR(S): Shah, S. R.; Seshadri, S.
CORPORATE SOURCE: Dep. Chem. Technol., Univ. Bombay, Matunga, India
SOURCE: Indian Journal of Chemistry (1972), 10(8), 820-2
CODEN: IJOCAP; ISSN: 0019-5103
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB The properties of 3-chloro-2-(dimethylaminomethylene)-1,4-benzothiazine (I, R = Cl) (II) [the Vilsmeier product derived from 1,4-benzothiazin-3(4H)-one] are described. Hydrolysis under different conditions gave 1,4-benzothiazine-2-carboxylic acid (III, R = H, R1 = CO2H), 1,4-benzothiazin-3(4H)-one-2-carboxaldehyde, or 3-chloro-1,4-benzothiazine-2-carboxaldehyde III (R = H, R1 = CHO), depending on the method of hydrolysis. Reaction of the perchlorate of II with pyridine leads to the selective attack at the aminomethylene function yielding a pyridinium salt (IV), but reaction with Me2SO leads to the displacement of chlorine yielding a dimethylsulphoxonium derivative I (R = Me2S+O)ClO4-. Reaction of II with NaOAc or KCN in HOAc gave the benzothiazinones (V, R = OAc, CN, resp.).
IT **39974-42-0P 39974-43-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 39974-42-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(acetyloxy)methylene]- (9CI) (CA INDEX NAME)

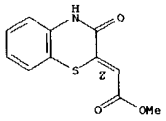


RN 39974-43-1 CAPLUS
CN Acetonitrile, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)- (9CI) (CA INDEX NAME)



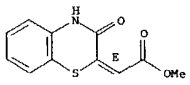
L4 ANSWER 72 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1972:461922 CAPLUS
DOCUMENT NUMBER: 77:61922
TITLE: Reaction of 2-aminothiophenol with dimethyl acetylenedicarboxylate
AUTHOR(S): Maki, Yoshifumi; Suzuki, Mikio
CORPORATE SOURCE: *Gifu Coll. Pharm., Gifu, Japan*
SOURCE: Chemical & Pharmaceutical Bulletin (1972), 20(4), 832-4
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB Osc-H2NC6H4SH (I) and MeO2CC.tplbond.CCO2Me (II) gave benzothiazine (trans-III) (IV), which was photochem. isomerized to cis-III (V). Hydrogenation of IV gave VI. Photochem. addition of I and II gave IV, V, and *di-Me fumarate, as well as other products.*
IT **37893-72-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 37893-72-4 CAPLUS
CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L4 ANSWER 73 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1972:461917 CAPLUS
DOCUMENT NUMBER: 77:61917
TITLE: Aminobenzenes. VIII. Rearrangement of phenyl carbamates. Syntheses of 2,4-dioxo-3,4-dihydro-2H-1,3-benzoxazines and salicylamides
AUTHOR(S): *Effenberger, Franz; Niess, Rolf; Schick, Max*
CORPORATE SOURCE: Inst. Org. Chem., Univ. Stuttgart, Stuttgart, Fed. Rep. Ger.
SOURCE: Chemische Berichte (1972), 105(6), 1926-42
CODEN: CHBEAM; ISSN: 0009-2940
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 77:61917
GI For diagram(s), see printed CA Issue.
AB Thermal rearrangement of N-aryl-substituted m-RC6H4O2CNHR1 (I, R = pyrrolidinyl, piperidino, or Me2N; R1 = Ph, Bz, or p-ClC6H4CO) obtained *from m-RC6H4OH and R1NCO gave 4,2-R(HO)C6H3-CONHR1 (II), whereas* N-alkoxy-substituted I gave 2,4-dioxo-3,4-dihydro-2H-1,3-benzoxazines (III). III were cleaved by dilute KOH with CO2 evolution to give II (R1 = H). The mechanism of this Fries rearrangement-like reaction involving an intramol. path is discussed.
IT **37893-32-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 37893-32-6 CAPLUS
CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



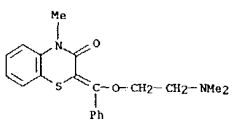
L4 ANSWER 74 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1972:419657 CAPLUS
DOCUMENT NUMBER: 77:19657
TITLE: 2-[α[ω-(Dimethylamino)alkoxy]benzylidene]-4-methyl-2H-1,4-benzothiazin-3(4H)-ones
INVENTOR(S): Krapcho, John
PATENT ASSIGNEE(S): E. R. Squibb and Sons, Inc.
SOURCE: Ger. Offen., 29 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: *German*
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2150661	A	19720413	DE 1971-2150661	19711011
US 3715353	A	19730206	US 1970-80196	19701012
CH 561710	A	19750515	CH 1971-14807	19711011
FR 2110376	A5	19720602	FR 1971-36633	19711012
FR 2110376	B1	19750207		
HU 163946	P	19731128	HU 1971-SU678	19711012
JP 55018707	B4	19800521	JP 1971-80490	19711012
GB 1373537	A	19741113	GB 1971-47261	19711111
PRIORITY APPLN. INFO.:			US 1970-80196	19701012

GI *For diagram(s), see printed CA Issue.*
AB Two title compds. (I, n = 2 or 3), useful as antidepressants, were prepared by ring closure of o-H2NC6H4SH and ClCH2CO2H, N-methylation, benzoylation, and aminoalkylation. Thus, ClCH2CO2H was added to o-H2NC6H4SH in NaOH at <30° and the mixture refluxed 4 hr to give 82% II. NaH and then Me2SO4 were added to II in DMF at <30°, and the mixture was heated 2 hr at 100-5° to give 74% III. NaH was added to III and BzOMe in Me2SO and the mixture heated 3 hr at 70-5° to give 90% IV. NaH was added to IV in DMF, the mixture heated at 45°, Me2NCH2CH2Cl in PhMe and then NaI were added at 25°, and the mixture was heated 3 hr at 100-5° to give I (n = 2), which was precipitated as hydrochloride and recrystd. as maleate in 31% yield.
IT **37142-84-0P 37142-85-1P 37142-86-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN *37142-84-0* CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[2-(dimethylamino)ethoxy]phenylmethylene]-4-methyl-, (2Z)-2-butenedioate (9CI) (CA INDEX NAME)

CM 1

CRN 47451-15-0
CMF C20 H22 N2 O2 S

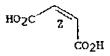


L4 ANSWER 74 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

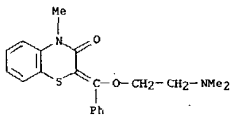
CM 2

CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.



RN 37142-85-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[2-(dimethylamino)ethoxy]phenylmethylene]-4-methyl-, hydrochloride (9CI) (CA INDEX NAME)

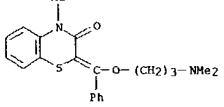


● HCl

RN 37142-86-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-(dimethylamino)propoxy]phenylmethylene]-4-methyl-, (2Z)-2-butenedioate (9CI) (CA INDEX NAME)

CM 1

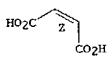
CRN 47494-87-1
CMF C21 H24 N2 O2 S



CM 2

CRN 110-16-7
CMF C4 H4 O4

L4 ANSWER 74 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
Double bond geometry as shown.



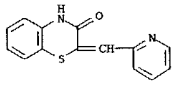
L4 ANSWER 75 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:	1971:476816 CAPLUS
DOCUMENT NUMBER:	75:76816
TITLE:	Substituted 2H-1,4-benzothiazine derivatives
INVENTOR(S):	Krapcho, John
PATENT ASSIGNEE(S):	E. R. Squibb and Sons, Inc.
SOURCE:	Ger. Offen., 40 pp. CODEN: GWXXBX
DOCUMENT TYPE:	Patent
LANGUAGE:	German
FAMILY ACC. NUM. COUNT:	1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2051474	A	19710506	DE 1970-2051474	19701020
BR 6915342	A0	19730313	BR 1969-215342	19691219
US 3746706	A	19730717	US 1970-35590	19700507
HU 163349	P	19730728	HU 1970-SU569	19701022
NL 7015698	A	19710503	NL 1970-15698	19701027
CH 543512	A	19731214	CH 1970-15877	19701027
FR 2070172	A1	19710910	FR 1970-38889	19701028
FR 2070172	A5	19710910		
GB 1334793	A	19731024	GB 1970-49269	19701028
CA 948626	A1	19740604	CA 1970-96805	19701028
JP 50022557	B4	19750731	JP 1970-95067	19701028
BE 774835	A1	19720503	BE 1971-110068	19711103
PRIORITY APPLN. INFO.:			US 1969-871976	19691028
			US 1970-35590	19700507

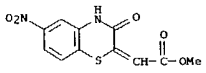
GI For diagram(s), see printed CA Issue.
AB Reacting I with R3MgBr gave antiinflammatory II. I (R1 = C2H4NMe2, R2 = Ph, Y = S) was treated with MeMgBr in THF at 20° to yield II (R1 = C2H4NMe2, R2 = Ph, R3 = Ac, Y = S). An addnl. 16 examples involve this rearrangement in preparation
IT **33216-62-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 33216-62-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-pyridinylmethylene)- (9CI) (CA INDEX NAME)



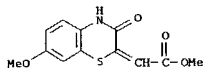
L4 ANSWER 76 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:	1971:449005 CAPLUS
DOCUMENT NUMBER:	75:49005
TITLE:	Synthesis and central nervous system effects of some benzothiazinones
AUTHOR(S):	Heindel, Ned D.; Reid, Jack R.; Willis, Joseph E.
CORPORATE SOURCE:	Dep. Chem., Lehigh Univ., Bethlehem, PA, USA
SOURCE:	Journal of Medicinal Chemistry (1971), 14(5), 463 CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE:	Journal
LANGUAGE:	English

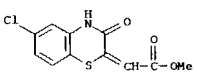
GI For diagram(s), see printed CA Issue.
AB Six 2-carbomethoxy-methylene-3,4-dihydro-3-oxo-2H-benzo-1,4-thiazines were synthesized by condensing o-aminothiophenols with di-Me acetylene-dicarboxylate in MeOH, and tested in a neuropharmacol. mouse profile. Compound I was inactive and nontoxic at doses of 1000 mg/kg, whereas compound II induced a low order of sedativehypnotic activity at 1000 mg/kg but not at 300 mg/kg, is reflected in a depression of spontaneous motor activity and body tone and increases in passivity and pupil size. The most active compound was III which induced depression, catatonia, and decreased motor activity at doses as low as 100 mg/kg.
IT **31385-17-8P 31385-18-9P 32723-06-1P**
32723-08-3P 32816-83-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 31385-17-8 CAPLUS
CN Acetic acid, (3,4-dihydro-6-nitro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester (9CI) (CA INDEX NAME)



RN 31385-18-9 CAPLUS
CN Acetic acid, (3,4-dihydro-7-methoxy-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester (9CI) (CA INDEX NAME)

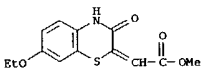


RN 32723-06-1 CAPLUS
CN 2H-1,4-Benzothiazine-Δ2,α-acetic acid, 6-chloro-3,4-dihydro-3-oxo-, methyl ester (8CI) (CA INDEX NAME)

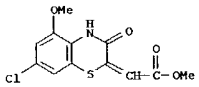


L4 ANSWER 76 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

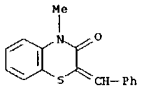
RN 32723-08-3 CAPLUS
CN 2H-1,4-Benzothiazine-Δ2,α-acetic acid, 7-ethoxy-3,4-dihydro-3-oxo-, methyl ester (8CI) (CA INDEX NAME)



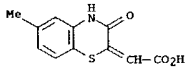
RN 32816-83-4 CAPLUS
CN 2H-1,4-Benzothiazine-Δ2,α-acetic acid, 7-chloro-3,4-dihydro-5-methoxy-3-oxo-, methyl ester (8CI) (CA INDEX NAME)



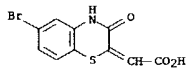
L4 ANSWER 77 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1971:53750 CAPLUS
DOCUMENT NUMBER: 74:53750
TITLE: Synthesis of 1,5-benzothiazepine derivatives. II
AUTHOR(S): Kugita, Hiroshi; Inoue, Hirozumi; Ikezaki, Muneyoshi; Konda, Mikihiko; Takeo, Satoshi
CORPORATE SOURCE: Org. Chem. Res. Lab., Tanabe Seiyaku Co., Ltd., Saitama, Japan
SOURCE: Chemical & Pharmaceutical Bulletin (1970), 18(11), 2284-9
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB Et threo-2-hydroxy-3-aryl-(2-nitroarylthio)propionates (I) (aryl = 4-RC6H4, R = H or p-MeO) were obtained by the reaction of 4,2-X(O2N)C6H3OH (X = H or Cl) and Et arylglycidates(aryl = 4-RC6H4, R = H or p-MeO) in the presence of catalytic amount of NaHCO3. I was converted into 1,5-benzothiazepine derivs. (II), the configuration of which was 2,3-trans.
IT **30752-17-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 30752-17-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)- (9CI) (CA INDEX NAME)



L4 ANSWER 78 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1971:42325 CAPLUS
DOCUMENT NUMBER: 74:42325
TITLE: Organic ulfur compounds. VII. Reactions of benzothiazine hydroxamic, acids
AUTHOR(S): Coutts, Ronald T.; Matthias, Sharon J.; Mah, E.; Pound, N. J.
CORPORATE SOURCE: Fac. Pharm. Pharm. Sci., Univ. Alberta, Edmonton, AB, Can.
SOURCE: Canadian Journal of Chemistry (1970), 48(23), 3727-32
CODEN: CJCHAG; ISSN: 0008-4042
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 74:42325
AB Treatment of (3,4-dihydro-4-hydroxy-3-oxo-2H-1,4-benzothiazin-2-yl)acetic acid (I) with NaOH yields the corresponding lactam, i.e. (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-yl)acetic acid, together with the α,β-unsatd. acid, 3,4-dihydro-3-oxo-2H-1,4-benzothiazine-Δ2,α-acetic acid. The 6-Me and 6-Br derivs. of I behaved similarly when treated with NaOH but when 3,4-dihydro-4-hydroxy-3-oxo-2H-1,4-benzothiazine was so treated a more complex reaction occurred. Me (6-bromo-3,4-dihydro-4-hydroxy-3-oxo-2H-1,4-benzothiazin-2-yl)-acetate was also treated with HCl. The 2 products isolated were (6-bromo-3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-yl)acetic acid and (6-bromo-7-chloro-3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-yl)acetic acid. The action of HCl on 3,4-dihydro-4-hydroxy-7-methyl-3-oxo-2H-1,4-benzothiazine also gave 2 products. One was the corresponding lactam; the other was unexpected and has been tentatively identified as bis[2-(3,4-dihydro-7-methyl-3-oxo-2H-1,4-benzothiazine].
IT **30321-26-7P 30321-95-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 30321-26-7 CAPLUS
CN 2H-1,4-Benzothiazine-Δ2,α-acetic acid, 3,4-dihydro-6-methyl-3-oxo- (8CI) (CA INDEX NAME)

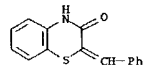


RN 30321-95-0 CAPLUS
CN 2H-1,4-Benzothiazine-Δ2,α-acetic acid, 6-bromo-3,4-dihydro-3-oxo- (8CI) (CA INDEX NAME)

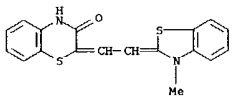


L4 ANSWER 78 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

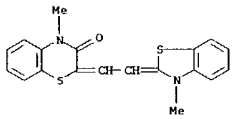
L4 ANSWER 79 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1971:13117 CAPLUS
DOCUMENT NUMBER: 74:13117
TITLE: Synthesis of 1,5-benzothiazepine derivatives. I
AUTHOR(S): Kugita, Hiroshi; Inoue, Hirozumi; Ikezaki, Muneyoshi; Takeo, Satoshi
CORPORATE SOURCE: Org. Chem. Res. Lab., Tanabe Seiyaku Co., Ltd., Saitama, Japan
SOURCE: Chemical & Pharmaceutical Bulletin (1970), 18(10), 2028-37
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 74:13117
GI For diagram(s), see printed CA Issue.
AB Reaction of 2-aminothiophenol and Et phenylglycidate gave Et 2-hydroxy-3-(2-aminophenylthio)-3-phenylpropionate (I) and 2-phenyl-3-hydroxy-2,3-dihydro-1,5-benzothiazepin-4(5H)-one (II). Hydrolysis of I gave the corresponding amino acid which was cyclized to II. The reaction of 2-nitrothiophenol and Et 3-(4-methoxyphenyl)glycidate was also studied. The rearrangement of II to III was observed
IT **24545-07-1P**
RL: FORM (Formation, nonpreparative); PREP (Preparation)
(formation of, from dihydrohydroxyphenylbenzothiazepinone)
RN 24545-07-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)



L4 ANSWER 80 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1970:457129 CAPLUS
DOCUMENT NUMBER: 73:57129
TITLE: Effect of alkali on 8-benzoylaminothiacarbocyanine iodide
AUTHOR(S): Kiprianov, A. I.; Suleimanova, M. G.; Dyadyusha, G. G.
CORPORATE SOURCE: Inst. Org. Khim., Kiev, USSR
SOURCE: Ukrainskii Khimicheskii Zhurnal (Russian Edition) (1970), 36(3), 269-72
CODEN: UKZHAU; ISSN: 0041-6045
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI For diagram(s), see printed CA Issue.
AB Bis(3-methylbenzothiazole-2)-8-benzoylaminothiacarbocyanine iodide (I) (0.5 g) yielded, after refluxing for 10 min with 0.1 g NaOH in 150 ml EtOH, evaporation of the solvent, and chromatographic purification on Al2O3 (C6H6 followed by CHCl3), 0.12 g 2,3-dihydro-4-methyl-2[(3-methyl-2-benzothiazolinylidene)ethylidene]-1,4-benzothiazin-3-one (II), m. 206°. II was prepared for comparison by condensing o-MeNHC6H4SH with ClCH(CO2Et)2 in alc.-NEt3 to form 2-carbethoxy-4-methyl-2,3-dihydro-1,4-benzothiazin-3-one (III), bl 198°, which was condensed with IV in boiling PhNEt2 for 30 min. Using o-H2NC6H4SH, the N-demethylated analogs of III, m. 145°, and of II, m. 274°, λmax 444 nm (EtOH), were similarly prepared, but attempts to methylate the latter to II were unsuccessful. A mechanism for the formation of II was proposed.
IT **28731-98-8P 29430-90-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 28731-98-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(3-methyl-2-benzothiazolinylidene)ethylidene]- (8CI) (CA INDEX NAME)



RN 29430-90-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-[2-(3-methyl-2-benzothiazolinylidene)ethylidene]- (8CI) (CA INDEX NAME)

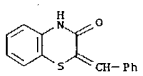


L4 ANSWER 80 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 81 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1970:21702 CAPLUS
DOCUMENT NUMBER: 72:21702
TITLE: 2H-1,4-Benzothiazin-3(4H)-ones
INVENTOR(S): Krapcho, John
PATENT ASSIGNEE(S): E. R. Squibb and Sons, Inc.
SOURCE: Ger. Offen., 27 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

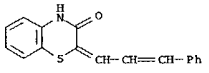
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1910302	A	19690925	DE 1969-1910302	19690228
US 3635956	A	19720118	US 1968-709808	19680301
GB 1265165	A	19720301	GB 1969-1265165	19690224
FR 2003038	A5	19691107	FR 1969-5409	19690228
FR 2003038	B1	19730810		
CH 493553	A	19700715	CH 1969-493553	19690228
JP 49010671	B4	19740312	JP 1969-15839	19690301
FR 2034449	A5	19701211	FR 1970-9282	19700316
FR 2034449	B1	19730810		

PRIORITY APPLN. INFO.: US 1968-709808 19680301
GI For diagram(s), see printed CA Issue.
AB The title compds. I (Y = S), useful as tranquilizers, were obtained by treating benzothiazin-3-one (II), prepared from 2-aminothiophenol (III) and chloroacetic acid (IV), with an aldehyde and reacting the alkylidenebenzothiazine with a dialkylaminoalkyl halide. Thus, 95 g IV in 300 ml PhMe was added to 250 g III in 500 ml PhMe with stirring, and the mixture refluxed 3 hr to give 64% II, m. 179-81°. II (45 g), 45 g BzH, and 100 ml Ac2O was heated, 50 ml Et3N added, and the mixture refluxed 7 hr to give 68% 2-benzylidene-2H-1,4-benzothiaz in-3(4H)-one (V), m. 203-5°. Me2N(CH2)2Br (0.15 mole) in 200 ml PhMe was added to 4 g NaNH2 and 25.4 g V in 1 l. PhMe, the mixture stirred 30 min at room temperature and then 4 hr at 60-5°; treatment with HCl gave 56% I.HCl [X = H, Y = S, ANB = Me2N(CH2)2, p = 0, R1 = Ph, (R2R3 =) O], m. 234-6° (EtOH); the bromomethyl adduct, the 1-oxide, and the 1,1-dioxide were also prepared. Similarly prepared were the following I.HCl [Y = S, (R2R3 =)O] (X, ANB, p, R1, % yield, and m.p. given): H, Me2N(CH2)3, 0, Ph, 70, 191-3° (EtOH); H, Et2N(CH2)2, 0, Ph, -, 168-70° (MeCN); H, Me2N(CH2)2, 1, Ph, -, 234-6° (EtOH) (also reported was the corresponding α-methylcinnamylidene derivative). 2-Cinnamylidene-2H-1,4-benzothiazin-3(4H)-one, m. 268-70° (HCONMe2), was prepared and used as an intermediate.
IT **24545-07-1P 24545-11-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 24545-07-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)

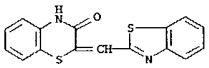


L4 ANSWER 81 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

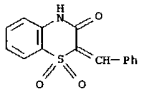
RN 24545-11-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-cinnamylidene- (8CI) (CA INDEX NAME)



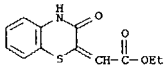
L4 ANSWER 82 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1969:449871 CAPLUS
DOCUMENT NUMBER: 71:49871
TITLE: Structure and biogenesis of phaeomelanins. VII. Structure of trichosiderins
AUTHOR(S): Nicolaus, Rodolfo A.; Prota, Giuseppe; Santacroce, Ciro; Scherillo, Giulia; Sica, Donato
CORPORATE SOURCE: Univ. Napoli, Naples, Italy
SOURCE: Gazzetta Chimica Italiana (1969), 99(4), 323-50
CODEN: GCITA9; ISSN: 0016-5603
DOCUMENT TYPE: Journal
LANGUAGE: Italian
GI For diagram(s), see printed CA Issue.
AB The structure of a yellow-orange pigment C23H20N4O9S2 (I), extracted by dilute alkali from the feathers of the New Hampshire strain chicken was determined I, heated in the presence of acid, is decarboxylated easily, yielding C22H40N4O7S2, having spectral and chromatographic properties identical with those of trichosiderins extracted from red human hair. The chemical behavior of some model compds. with trichosiderin-like chromophore was also investigated.
IT **23416-87-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 23416-87-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-benzothiazolylmethylene)- (8CI) (CA INDEX NAME)



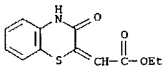
L4 ANSWER 83 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1968:12929 CAPLUS
DOCUMENT NUMBER: 68:12929
TITLE: Amidoalkylation of sulfazone
AUTHOR(S): Borovik, V. P.; Mamaev, V. P.
CORPORATE SOURCE: Inst. Org. Khim., Novosibirsk, USSR
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1967), (2), 277-80
CODEN: KGSSAQ; ISSN: 0132-6244
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI For diagram(s), see printed CA Issue.
AB The title compound (I) (2 g.) was dissolved at 120° in a small amount of AcOH, and 2.12 g. PhCH(NHAc)2 added, the mixture heated 2 hrs., and AcOH evaporated To the residue ether was added followed by CHCl3 to give 41.5% 2-(α-acetamidobenzyl)sulfazone (II), m. 161-3° (dioxane), To the CHCl3 filtrate petroleum ether was added to give 27% benzalsulfazone (III), m. 180°. III was also obtained by heating I with BzH and Et3N 6 hrs. III with EtOH and 10% NaOH gave 64% 2-(α-ethoxybenzyl)sulfazone, m. 161-3°, and with MeOH gave 63% 2-(α-methoxybenzyl)sulfazone, m. 143-5°. I (5 g.) with 5.31 g. PhCH(NHCONH2)2 was heated 2 hrs. to 125° in 50 ml. AcOH, then AcOH evaporated in vacuo, MeOH added, and after few days 2-(α-ureidobenzyl)sulfazone (IV) m. 153-4°, precipitated in 41.5% yield. IV was also obtained in 21.8% yield by heating I with PhCH:NCONH2 in absolute EtOH with HCl. II hydrolyzed with 20% HCl gave 64% I.
IT **16684-63-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 16684-63-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-benzylidene-, 1,1-dioxide (8CI) (CA INDEX NAME)



L4 ANSWER 84 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1967:94975 CAPLUS
DOCUMENT NUMBER: 66:94975
TITLE: On the structure of the product of the reaction of 2-aminothiophenol with diethyl acetylene dicarboxylate
AUTHOR(S): Kalbag, S. M.; Nair, Mohann D.; Rajagopalan, Parthasarathy; Talaty, Chandravadan N.
CORPORATE SOURCE: CIBA Res. Centre, Bombay, India
SOURCE: Tetrahedron (1967), 23(4), 1911-14
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 66:94975
GI For diagram(s), see printed CA Issue.
AB The major product (m. 220-2°) of the reaction of 2-aminothiophenol with (.tplbond.CCO2Et)2 was conclusively shown to be 2-ethoxycarbonylmethylene-3,4 - dihydro - 3 - oxo - 2H - benzo - 1,4 - thiazine (I) and not 3-(ethoxycarbonylmethylene)-3,4-dihydro-2-oxo-2H-benzo-1,4-thiazine (II) as reported. CA 59, 39161.
IT **13677-06-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 13677-06-0 CAPLUS
CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, ethyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 85 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1963:421754 CAPLUS
DOCUMENT NUMBER: 59:21754
ORIGINAL REFERENCE NO.: 59:3916b-d
TITLE: Reaction of diethyl acetylenedicarboxylate with o-aminothiophenol
AUTHOR(S): Iwanami, Yasuo
CORPORATE SOURCE: Sasaki Inst., Tokyo
SOURCE: Nippon Kagaku Zasshi (1962), 83, 100-2
CODEN: NPKZAZ; ISSN: 0369-5387
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
GI For diagram(s), see printed CA Issue.
AB o-H2NC6H4SH (3.8 g.) in 20 cc. EtOH was added to 5.1 g. EtO2CCCCO2Et in 30) cc. EtOH at room temperature, the temperature being raised to 53° by mixing, and the precipitate collected to give 3.6 g. 2-oxo-3-ethoxycarbonylmethylene-3,4-dihydro-2H-1,4-benzothiazine (I), m. 220.5-2.0°. The mother liquor was concentrated to give 2 g. 2-ethoxycarbonylmethylene-3-oxo-3,4-dihydro-2H-1,4-benzothiazine (II), m. 268-9°. I (0.5 g.) and 50 cc. 5N HCl were heated 5 hrs., but I was recovered. Hydrolysis of II gave 16% 2-carboxymethylene analog of II, m. 280-1°. Infrared spectra of I and II are given.
IT **13677-06-0**, 2H-1,4-Benzothiazine-Δ2,α-acetic acid, 3,4-dihydro-3-oxo-, ethyl ester **63351-92-8**, 2H-1,4-Benzothiazine-Δ2,α-acetic acid, 3,4-dihydro-3-oxo-
(preparation of)
RN 13677-06-0 CAPLUS
CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, ethyl ester (9CI) (CA INDEX NAME)



RN 63351-92-8 CAPLUS
CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)- (9CI) (CA INDEX NAME)

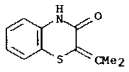
L4 ANSWER 86 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1962:416955 CAPLUS
DOCUMENT NUMBER: 57:16955
ORIGINAL REFERENCE NO.: 57:3454i,3455a-b
TITLE: Halogenated 1,4-benzothiazan-3-one derivatives
INVENTOR(S): Laubach, Gerald D.
PATENT ASSIGNEE(S): Chas. Pfizer & Co., Inc.
SOURCE: 3 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2956055		19581010	US	

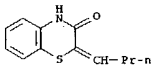
AB Using the procedure for I, dialkyl substituted compound were prepared which on oxidation gave II. Thus, 0.32 mole of Et α-chloroisobutyrate was used in place of Et α-bromovalerate to give 2,2-dimethyl-1,4-benzothiazan-3-one (IV), m. 150-3°. IV (15 g.) in 100 ml. CH_2Cl_2 was treated with 11.5 g. SO_2Cl_2 at 0° to give 10.2 g. of chloro-2,2-dimethyl-1,4-benzothiazan-3-one (V), m. 190-2° (EtOAc). Oxidation of V was effected by treating 4 g. V in 60 ml. dioxane dropwise at 0° with 8.3 g. $KMnO_4$ in 93 ml. H_2O and 208 ml. glacial AcOH. After agitation 2 hrs. at room temperature the excess $KMnO_4$ was destroyed by adding 30% H_2O_2, and the clear solution concentrated to give the dioxide m. 223-6° (EtOAc). II were therapeutically effective as muscle relaxants.

IT **55043-53-3**, 2H-1,4-Benzothiazin-3(4H)-one, 2-isopropylidene-
88611-54-5, 2H-1,4-Benzothiazin-3(4H)-one, 2-butylidene-
92287-56-4, 2H-1,4-Benzothiazin-3(4H)-one, 2-propylidene-
(preparation of)

RN 55043-53-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1-methylethylidene)- (9CI) (CA INDEX NAME)

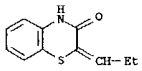


RN 88611-54-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-butylidene- (7CI) (CA INDEX NAME)



RN 92287-56-4 CAPLUS

L4 ANSWER 86 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-propylidene- (7CI) (CA INDEX NAME)



L4 ANSWER 87 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1962:416954 CAPLUS
DOCUMENT NUMBER: 57:16954
ORIGINAL REFERENCE NO.: 57:3454f-i
TITLE: Halogenated 1,4-benzothiazan-3-one derivatives
INVENTOR(S): Laubach, Gerald D.
PATENT ASSIGNEE(S): Chas. Pfizer & Co., Inc.
SOURCE: 4 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
PATENT INFORMATION:

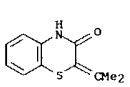
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2956054		19601011	US	19580811

GI For diagram(s), see printed CA Issue.

AB I and II were synthesized, where R1, R2, and R3 were either H or alkyl groups having 1-3 carbon atoms, and X, H, halogen, alkoxyl, alkyl, or alkanoyl group. I were obtained by treatment of 2-alkyl-1,4-benzothiazan-3-ones (III) with Cl or SO_2Cl_2 in halogenated solvents such as methylene chloride and in the presence of HCl acceptor (carbonates of alkali or alkaline earth metals). Thus, III (alkyl = Pr) (IIIa) was first prepared by adding dropwise 18 g. KOH in absolute ethanol to 40 g. o-aminobenzenethiol under N. Et α-bromovalerate (0.32 mole) was then added at 0°. The mixture was refluxed 3 hrs. After filtering off the insol. salt, the filtrate was concentrated in vacuo to a thick sirup which, on trituration with 50-50 ether-petr. ether, gave 61% IIIa, m. 77-9°. Halogenation of IIIa was carried out by treating a mixture of 9 g. IIIa and 30 g. $CaCO_3$ in 100 ml. of CH_2Cl_2 at 0° while 6.75 g. SO_2Cl_2 was added. The slurry was stirred 3 hrs. at room temperature, filtered, and recrystd. from EtOAc to give 7.3 g. I (R1 = H, R2 = R3 = Me), m. 213-15°. The following (I) were prepared (R1, R2, R3, and m.p. given): H, Pr, H, 131-3°; H, Bu, H, 141-3°. I were useful as tranquilizers and in the treatment of the symptoms of bursitis, rheumatism, spasticity, strains, and the like.

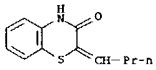
IT **55043-53-3**, 2H-1,4-Benzothiazin-3(4H)-one, 2-isopropylidene-
88611-54-5, 2H-1,4-Benzothiazin-3(4H)-one, 2-butylidene-
92287-56-4, 2H-1,4-Benzothiazin-3(4H)-one, 2-propylidene-
(preparation of)

RN 55043-53-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1-methylethylidene)- (9CI) (CA INDEX NAME)

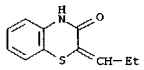


RN 88611-54-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-butylidene- (7CI) (CA INDEX NAME)

L4 ANSWER 87 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 92287-56-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-propylidene- (7CI) (CA INDEX NAME)

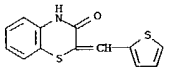


L4 ANSWER 88 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1961:27911 CAPLUS
DOCUMENT NUMBER: 55:27911
ORIGINAL REFERENCE NO.: 55:5509b-i,5510a-d
TITLE: Arylbenzo[e]-1,3-thiazine derivatives. III. Verification of the position of the alkoxy groups in arylbenzo[e]-1:3-thiazine derivatives by synthesis
AUTHOR(S): Szabo, J.; Vinkler, E.
CORPORATE SOURCE: Med. Univ., Szeged, Hung.
SOURCE: Acta Chimica Academiae Scientiarum Hungaricae (1958), 17, 201-9
CODEN: ACASA2; ISSN: 0001-5407
DOCUMENT TYPE: Journal
LANGUAGE: German

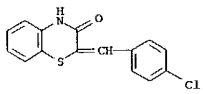
AB cf. CA 52, 6358c. The position of alkoxy groups in several dialkoxybenzo[e]-1,3-thiazine derivs. was verified by oxidation of the benzothiazine bases to 4-oxo derivs., and comparison of these with the same products obtained from S-aroylthiosalicylamides, the alkoxy positions of which were known. The S-aroylthiosalicylamide derivs., which were prepared from 6,7-dialkoxy derivs. obtained from 6,3,4-H2N(MeO)2C6H2CO2H, were cyclized to 4-oxo derivs. according to Bohme and Schmidt (cf. CA 49. 15907a). Thus, 2.85 g. 2-phenyl-6,7-dimethoxybenzo[e]-1,3-thiazine in 10 ml. HOAc treated with 1.35 g. CrO3 in 1 ml. H2O and 2 ml. HOAc gave after 10 min. 0.8 g. 2-phenyl-4-oxo-6,7-dimethoxybenzo[e]-1,3-thiazine (I), yellow needles, m. 189-90° (alc.). Similarly prepared were: from 0.86 g. 2-(3,4-dimethoxyphenyl)-6,7-dimethoxybenzo[e]-1,3-thiazine, 0.25 g. 2-(3,4-dimethoxyphenyl)-4-oxo-6,7-dimethoxybenzo[e]-1,3-thiazine (II), yellow needles, m. 217-18° (alc.); from 1.73 g. 2-phenyl-6,7-diethoxybenzo[e]-1,3-thiazine, 0.52 g. 2-phenyl-4-oxo-6,7-diethoxybenzo[e]-1,3-thiazine (III), yellow needles, m. 154-5° (alc.). 6,3,4-H2N(MeO)2C6H2CO2H (9.6 g.) in 100 ml. H2O and 10 ml. concentrated HCl added at 0° to 3.45 g. NaNO2 in 15 ml. H2O, the mixture stirred 1 hr. at 0°, added with stirring to a solution prepared from 13 g. Na2S, 15 ml. H2O, and 1.73 g. S, treated with 2.11 g. NaOH in 100 ml. H2O and with 50 g. crushed ice, the mixture stirred 3 hrs. until N evolution ceased, acidified with HCl, the precipitate filtered off, washed with H2O, dissolved in dilute NaHCO3, treated with C, precipitated with concentrated HCl, filtered, washed with H2O, suspended in 50 ml. HOAc, 2 g. Zn added, the mixture refluxed 3 hrs., cooled, centrifuged, the precipitate heated 15 min. with 10 g. NaOH in 50 ml. H2O, filtered, the solution acidified with HCl, and the precipitate filtered off, washed with H2O, and dried gave 4.6 g. 4,5-dimethoxythiosalicylic acid (IV), needles, m. 184-5° (alc.). IV (4.3 g.) in 25 ml. alc. treated with a saturated alc. iodine solution until just colored brown, H2O added, the precipitate formed filtered off, washed with 50% alc., and dried at 105° gave 3.95 g. 4,4',5,5'-tetramethoxydiphenyl disulfide-2,2'-dicarboxylic acid (V), needles, m. 248-50° (alc.). V (8.52 g.) dissolved on the H2O bath in a solution of 4 g. KHCO3 in 30 ml. H2O, evaporated to dryness at 105°, the residue pulverized, suspended in 50 ml. C6H6, gradually treated with 10 g. SOCl2, refluxed 30 min., the solvent and SOCl2 distilled in vacuo, the mixture cooled, and the crystals formed washed with 15-20 ml. petr. ether gave 7.2 g. 4,4',5,5'-tetramethoxydiphenyl disulfide-2,2'-dicarbonyl chloride (VI), yellow needles, m. 147-8° (C6H6). VI (6.95 g.) treated in 60 ml. C6H6 satd. with dry NH3, gave 5.2 g. 4,4',5,5'-tetramethoxydiphenyl disulfide-2,2'-dicarboxamide (VII), needles, m. 221-3° (alc.). VII (4.24 g.) in 20 ml. HOAc treated with 1 g. Zn powder, and the mixt. refluxed 1 hr. gave 2.55 g. 4,5-dimethoxythiosalicylamide (VIII), yellow needles, m. 169-70° (alc.). VIII (2.13 g.) in 8 ml. abs. C5H5N gradually treated with 1.4 g. BzCl, stirred 30 min., poured into dil. H2SO4 and crushed ice, the product filtered off, washed with H2O, and dried gave 2.3 g. S-benzoyl-4,5-dimethoxythiosalicylamide (IX), needles, m. 179-80° (alc.). Two-thirds of a soln. of 1.59 g. IX in 20 ml. abs. xylene distd. with slow introduction of dry HCl, the remainder of the solvent distd. in vacuo after shutting off the HCl, the residue dissolved in C6H6, washed with N NaOH and H2O, dried, the solvent distd., and the residue crystd. from alc. gave 0.8 g. I, m. 189-90°. VIII (1.07 g.) treated with 3,4-(MeO)2C6H3COCl as in the prepn. of IX gave 1.3 g. S-veratroyl-4,5-dimethoxythiosalicylamide (X), needles, m. 178-9° (alc.). X (0.95 g.) treated as in the prepn. of I gave 0.4 g. II, m. 217-18° (alc.). o-C6H4(OEt)2 (41.5 g.) and 45 g. PhNMeCHO in 51 g. POCl3 refluxed 90 min. on a H2O bath, the mixt. poured into 50 ml. H2O, extd. with 200 ml. Et2O, washed with H2O, shaken 3 hrs. with 40 g. NaHSO3 in 120 ml. H2O, the aq. phase sepd., treated with solid Na2CO3, the freed aldehyde extd. with Et2O, the Et2O layer washed with H2O, dried, the solvent distd., and the residue distd. in vacuo gave 26.6 g. 3,4-(EtO)2C6H3CHO (XI), b8 139-40°, n21.5D 1.557, d21.5 1.101. XI (38.8 g.) nitrated with 60.5 g. concd. HNO3 gave 43 g. 6,3,4-O2N(EtO)2C6H2CHO (XII), yellow needles, m. 95-6° (alc.). XII (23.9 g.) and 12 g. NaOH in 200 ml. H2O warmed on the H2O bath, gradually treated with 80 g. KMnO4 in 600 ml. H2O until decolorization of the permanganate took place, the soln. filtered hot and acidified with concd. HCl gave 12.1 g. 6,3,4-O2N(EtO)2C6H2CO2H (XIII), needles, m. 142-3° (C6H6). XIII (11.95 g.) in 250 ml. alc. hydrogenated at 50° and atm. pressure with 0.05 g. Pd-C gave 10.1 g. 6,3,4-H2N(EtO)2C6H2CO2H (XIV), prisms, m. 135-6° (decompn.) (alc.). XIV (9 g.) treated as in the prepn. of IV gave 4 g. 4,5-diethoxythiosalicylic acid (XV), needles, m. 202-3° (alc.). XV (3.63 g.) treated as in the prepn. of V gave 3.1 g. 4,4',5,5'-tetraethoxydiphenyl disulfide-2,2'-dicarboxylic acid (XVI), needles, m. 239-40° (alc.). XVI (9.25 g.) treated as in the prepn. of VI gave 7.4 g. 4,4',5,5'-tetraethoxydiphenyl disulfide-2,2'-dicarbonyl chloride (XVII), yellow needles, m. 106-9° (C6H6 and petr. ether). XVII (5.19 g.) treated as in the prepn. of VII gave 4 g. 4,4',5,5'-tetraethoxydiphenyl disulfide-2,2'-dicarboxamide (XVIII), needles, m. 219-20° (C6H6). XVIII (3.61 g.) treated as in the prepn. of VIII gave 2.5 g. 4,5-diethoxythiosalicylamide (XIX), platelets, m. 160-1° (alc.). XIX (2.41 g.) treated as in the prepn. of IX gave 2.14 g. S-benzoyl-4,5-diethoxythiosalicylamide (XX), needles, m. 179-80° (alc.). XX (1.73 g.) treated as in the prepn. of I gave 0.9 g. III, m. 154-5° (alc.).

IT **50393-32-3**, 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-thenylidene)- **54874-85-0**, 2H-1,4-Benzothiazin-3(4H)-one, 2-p-chlorobenzylidene- **54913-29-0**, 2H-1,4-Benzothiazin-3(4H)-one, 2-o-chlorobenzylidene- **100914-77-0**, 2H-1,4-Benzothiazin-3(4H)-one, 2-(3,4-dichlorobenzylidene)- **101442-51-7**, 2H-1,4-Benzothiazin-3(4H)-one, 2-veratrylidene- **101727-44-0**, 2H-1,4-Benzothiazin-3(4H)-one, 2-piperonylidene- **101884-21-3**, 2H-1,4-Benzothiazin-3(4H)-one, 2-(1-naphthylmethylene)- (prepn. of)

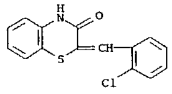
RN 50393-32-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-thienylmethylene)- (9CI) (CA INDEX NAME)



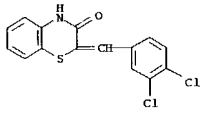
RN 54874-85-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-chlorophenyl)methylene]- (9CI) (CA INDEX NAME)



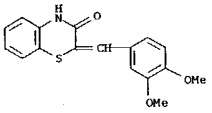
RN 54913-29-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-chlorophenyl)methylene]- (9CI) (CA INDEX NAME)



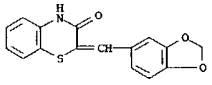
RN 100914-77-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(3,4-dichlorobenzylidene)- (6CI) (CA INDEX NAME)



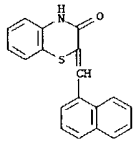
RN 101442-51-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-veratrylidene- (6CI) (CA INDEX NAME)



RN 101727-44-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-piperonylidene- (6CI) (CA INDEX NAME)



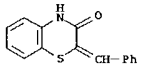
RN 101884-21-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1-naphthalenylmethylene)- (9CI) (CA INDEX NAME)



L4 ANSWER 89 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1961:27910 CAPLUS
DOCUMENT NUMBER: 55:27910
ORIGINAL REFERENCE NO.: 55:5508h-i,5509a-b
TITLE: Preparation of some 2-arylidene-3,4-dihydro-3-oxobenzo-1,4-thiazines
AUTHOR(S): Baliah, V.; Rangarajan, T.
CORPORATE SOURCE: Annamalai Univ., Annamalainagar, India
SOURCE: Journal of the Chemical Society, Abstracts (1960) 4703-4
CODEN: JCSAAZ; ISSN: 0590-9791
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB o-O2NC6H4SCH2CO2H (I) (4.26 g.), 1.5 g. NH4OAc, 0.5 g. piperidine, and the aldehyde refluxed 20 hrs., cooled, extracted with Et2O, the Et2O exts. concentrated, the residue dissolved in aqueous NaHCO3, filtered, extracted with Et2O and the aqueous layer neutralized with 50% H2SO4 gave o-O2NC6H4SC(:CHR)CO2H (II) (R, % yield, and m.p. given): Ph, 48, 184-6°; p-MeC6H4, 24, 194-7°; o-ClC6H4, 54, 215-17°; p-ClC6H4, 62, 121-14°; 3,4-Cl2C6H3, 49, 194-6°; o-MeOC6H4, 50, 202-4°; p-MeOC6H4, 33, 198-200°; 3,4-(MeO)2C6H3, 22, 188-90°; 3,4-CH2O2C6H3, 25, 232-5°; o-O2NC6H4, 14, 236-9°; m-O2NC6H4, 30, 194-6°; p-O2NC6H4, 32, 206-8°; α-naphthyl, 24, 220-5°; 2-thienyl, 38, 232-5°. Under the same conditions, o-HOC6H4CHO and I gave 3-(o-nitrophenylthio)coumarin, yellow needles, m. 223-5° (decomposition). To 0.0015 mole II in 15 ml. AcOH under reflux was added 2 g. Zn dust in small portions, the whole filtered and the filtrate diluted with H2O to give the 2-arylidene-3,4-dihydro-3-oxobenzo-1,4-thiazines (arylidene = RCH) (R in 2-arylidene group and m.p. given): Ph, 200-2°; p-MeC6H4, 232-5°; o-ClC6H4, 225-7°; p-ClC6H4, 245-7°; 3,4-Cl2C6H3, 245-7°; o-MeOC6H4, 214-16°; p-MeOC6H4, 207-8°; 3,4-(MeO)2C6H3, 232-4°; 3,4-CH2O2C6H3, 212-14°; α-naphthyl, 223-5°; 2-thienyl, 233-5°.

IT **24545-07-1**, 2H-1,4-Benzothiazin-3(4H)-one, 2-benzylidene- (preparation of)
RN 24545-07-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)



L4 ANSWER 90 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1954:77651 CAPLUS
DOCUMENT NUMBER: 48:77651
ORIGINAL REFERENCE NO.: 48:13692g-i,13693a-c
TITLE: Condensation of acetylenedicarboxylic acid with o-aminophenyl mercaptans
AUTHOR(S): Mushkalo, L. K.; Bezemskaya, V. A.
CORPORATE SOURCE: Kiev State Univ.
SOURCE: Ukrains'kii Khemichnii Zhurnal (1952), 18, 163-7
CODEN: UKHZAS; ISSN: 0372-4190
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI For diagram(s), see printed CA Issue.

AB cf. ibid. 17, 751(1951). Condensation of o-aminophenyl mercaptans with (.tplbond.CCO2H)2 (I) and its di-Me ester (II) was examined with the following results. Mixing Et2O solns. of 4.56 g. I and of 5 g. o-H2NC6H4SH resulted in an exothermic reaction which rapidly yielded 98% 3-oxo-2-(carboxymethylene)-3,4-dihydro-2H-1,4-benzothiazine (III) (o-C6H4.NH.CO.C(:CHCO2H).S, yellow, decompose 278° (from BuOH); this converted to Ag salt by evaporation with NH4OH, followed by treatment with AgNO3, gave on heating with MeI 61% Me ester, decompose 264° (from Me2CO). A similar reaction of II gave 96% of the same Me ester, m. 264° (decomposition). Hydrogenation of III over Ranev Ni in NaOH solution gave 70% 3-oxodihydrobenzothiazine-2-acetic acid (IV), m. 196°. Mixing Et2O solns. of I and o-MeNHC6H4SH similarly gave 81% 4-Me derivative of III, yellow, decompose 245° (from EtOH), whose Ag salt with MeI gave the Me ester, m. 144° (from Me2CO), also in 91% yield by similar condensation of II. Hydrogenation of the acid as above gave 51% 4-Me derivative of IV, m. 140° (from EtOH), an authentic specimen of which resulted in 58% yield on heating 0.42 g. maleic acid with 0.5 g. o-MeNHC6H4SH 15 min. on steam bath.

IT **63351-92-8**, 2H-1,4-Benzothiazine-Δ2,α-acetic acid, 3,4-dihydro-3-oxo- (and derivs.)
RN 63351-92-8 CAPLUS
CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)- (9CI) (CA INDEX NAME)